

PATENT JOURNAL

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TABLE OF CONTENTS

2. PATENTS	4
APPLICATIONS FOR PATENTS	5
ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)	79
CHANGE OF NAME IN TERMS OF REGULATION 39	85
PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63	86
PATENT APPLICATIONS ABANDONED OR WITHDRAWN	86
APPLICATION FOR RESTORATION OF A LAPSED PATENT	86
APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT	87
APPLICATIONS TO CORRECT SPECIFICATION	87
APPLICATIONS TO AMEND SPECIFICATION	88
INSPECTION OF SPECIFICATIONS	89
HYPOTHECATIONS	387
JUDGMENTS	387
OFFICE PRACTISE NOTICES	387
3. DESIGNS	388
APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993	389
CHANGE OF NAME IN TERMS OF REGULATION 24	394
APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT	394
APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION	394
NOTICE OF REGISTRATION OF DESIGNS	395
HYPOTHECATIONS	448
JUDGMENTS	448
OFFICE PRACTISE NOTICES	448
4. COPYRIGHT	449
NOTICES OF ACCEPTANCE	450
HYPOTHECATIONS	451
JUDGMENTS	451
OFFICE PRACTISE NOTICES	451
5. CORRECTION NOTICES	452
TRADE MARK CORRECTION NOTICES	453
PATENT CORRECTION NOTICES	453
DESIGNS CORRECTION NOTICES	453
COPYRIGHT CORRECTION NOTICES	453
PATENTS	453
DESIGNS	494

2. PATENTS

PATENTS

APPLICATIONS FOR PATENTS

Copies of these specifications cannot be supplied until the applications have been accepted and advertised, or in the case of convention applications, until 18 months from the date of the application in the convention

THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

- APPLIED ON 2021/07/26 -

2021/05253 ~ Complete ~54:ANTI-SUBSTRATE SPILL PLANTING CUP WITH FERTILIZER ROD ~71:Central South University of Forestry and Technology, 498 Shaoshan South Road, Tianxin District, Changsha City, Hunan Province, People's Republic of China ~72: Yang Liuqing~

2021/05266 ~ Complete ~54:MICRO ELECTRIC POWER STATION AND MICRO GRID ~71:GRANER, Peter, POB 198, ZIP 4410102, 4410102 KFAR SABA, Israel ~72: GRANER, Peter~ 33:IL ~31:255843 ~32:20/01/2019

2021/05278 ~ Complete ~54:HERBICIDAL COMPOUNDS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: DELANEY, John Stephen;SCUTT, James Nicholas;WILLETTS, Nigel James~ 33:GB ~31:1901617.9 ~32:06/02/2019

2021/05319 ~ Provisional ~54:GARMENT IRONING DEVICE WITH MUSIC PLAYER ~71:Nkosi Mohau Petrus, 01 Pheletso Street, Tswelelang, South Africa ~72: Nkosi Mohau Petrus~

2021/05277 ~ Complete ~54:COMPOSITIONS COMPRISING AMINO ACIDS FOR USE AND TREATMENT OF CENTRAL NERVOUS SYSTEM INJURIES ~71:Professional Dietetics S.p.A., Via Ciro Menotti, 1/A, MILANO 20129, ITALY, Italy ~72: GIORGETTI, Paolo Luca Maria~ 33:IT ~31:102019000002109 ~32:13/02/2019

2021/05262 ~ Complete ~54:RECOMBINANT NUCLEIC ACIDS CONTAINING ALPHAHERPESVIRUS PROMOTER SEQUENCES ~71:THE TRUSTEES OF PRINCETON UNIVERSITY, 87 Prospect Avenue, Princeton, New Jersey, United States of America ~72: ENGEL, Esteban;ENQUIST, Lynn;MATURANA, Carola~ 33:US ~31:62/801,524 ~32:05/02/2019;33:US ~31:62/950,848 ~32:19/12/2019

2021/05254 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF COPPER CATALYST FOR ACETYLENE HYDROCHLORINATION REACTION ~71:Zhejiang University of Technology, No.18, Chaowang Street, Xiacheng District, Hangzhou City, Zhejiang Province, People's Republic of China ~72: Wang Bolin;Wang Saisai;Yue Yuxue;Zhao Jia~

2021/05280 ~ Complete ~54:PHASE-STABILIZED AMMONIUM NITRATE PRILLS AND RELATED PRODUCTS AND METHODS ~71:DYNO NOBEL ASIA PACIFIC PTY LIMITED, Level 8 28 Freshwater Place, Southbank, Victoria, 3006, Australia ~72: BRIAN GRAHAM;JEFF GORE~ 33:AU ~31:2019900348 ~32:05/02/2019;33:AU ~31:2019904447 ~32:25/11/2019

2021/05245 ~ Provisional ~54:ESPANENG ARTISANS DIGITAL LOGBOOK ~71:CHACKSCREATIVE TECH (Pty) Ltd, 13 JUNTO COMPLEX, South Africa;KHOAHLAPE, LEBOHANG VIOLET, 13 JUNTO COMPLEX, South

Africa;NKONKA, FEZILE WILFRED, 249 Melkbos Street, South Africa ~72: CHACKSCREATIVETECH (Pty) Ltd;KHOAHLAPE, LEBOHANG VIOLET;NKONKA, FEZILE WILFRED~

2021/05256 ~ Complete ~54:INFRARED AND VISIBLE LIGHT IMAGE FUSION METHOD BASED ON FEATURE EMBEDDING ~71:Sichuan University of Science and Engineering, No. 1 Baita Road, Sanjiang New Area, Yibin City, Sichuan Province, People's Republic of China ~72: Dai Jinpeng;Luo Zhongqiang~

2021/05258 ~ Complete ~54:SIPHON-TYPE IRRIGATION AND DRAINAGE INTEGRATED CULTIVATION DEVICE ~71:Central South University of Forestry and Technology, 498 Shaoshan South Road, Tianxin District, Changsha City, Hunan Province, People's Republic of China ~72: Yang Liuqing~

2021/05261 ~ Complete ~54:COMPOSITIONS AND METHODS TO TREAT BIETTI CRYSTALLINE DYSTROPHY ~71:FRIEDRICH MIESCHER INSTITUTE FOR BIOMEDICAL RESEARCH, Maulbeerstrasse 66, Basel, Switzerland;NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BELL, Christie, L.;JUETTNER, Josephine;KROL, Jacek;MCGEE, Terri;ROSKA, Botond~ 33:US ~31:62/810,250 ~32:25/02/2019

2021/05265 ~ Complete ~54:HAND-OPERATED ADJUSTABLE-ANGLE APPARATUS FOR CALIBRATING SECTIONS OF ANIMAL BRAIN FOR EXPERIMENTATION ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan, Nantong, Jiangsu, 226000, People's Republic of China ~72: BEN, Zhiqin;CAO, Beibei;PENG, Yuping;QIU, Yihua;WANG, Xiaoqin~

2021/05276 ~ Complete ~54:PALATABLE FORMULATIONS ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: BADHAN, Atul Chhagan;CUNNINGHAM, Nicholas Finn;PANDA, Debendra Kumar;PRICE, Jeffrey Ellis;SINGH, Paramjit~ 33:US ~31:62/807,871 ~32:20/02/2019

2021/05250 ~ Complete ~54:A BIN ~71:BARNARD, Adriaan Jacobus, 39 David Fourie Street, Noordhoek, BLOEMFONTEIN, 9301, SOUTH AFRICA, South Africa ~72: BARNARD, Adriaan Jacobus~

2021/05257 ~ Complete ~54:SOIL REMEDIATION PASSIVATION MICROCAPSULE ~71:Hengyang Normal University, No.165 Huangbai Road, Yanfeng District, Hengyang City, Hunan Province, 421008, People's Republic of China ~72: Tang Siping;Tang Wenqing;Wang Shuzhan;Wang Zefen;Yi Lu;Yi Nengzhong;Zeng Rongying~

2021/05268 ~ Complete ~54:SILENCING TGF-BETA 1 AND COX2 USING SIRNAS DELIVERED IN COMBINATION WITH IMMUNE CHECKPOINT INHIBITORS TO TREAT CANCER ~71:SIRNAOMICS, INC., 401 PROFESSIONAL DR., SUITE 280, GAITHERSBURG, MARYLAND 20879, USA, United States of America ~72: EVANS, David, M.;LU, Patrick, Y.~ 33:US ~31:62/785,647 ~32:27/12/2018

2021/05283 ~ Complete ~54:THE USE OF PROTOPORPHYRIN IX DERIVATIVES TO IMPROVE THE HEALTH OF PLANTS ~71:SUNCOR ENERGY INC., Suncor Energy Centre, West Tower PO Box 2844, 150 – 6th Avenue SW Calgary, Alberta, T2P 3E3, Canada ~72: JUN LIU;KENNETH NG;MICHAEL FEFER;YOUQING SHEN;YUICHI TERAONO~ 33:US ~31:62/806,084 ~32:15/02/2019

2021/05263 ~ Complete ~54:A LIGHTING SYSTEM AND METHOD OF USE THEREOF ~71:IOT AUTOMATION GLOBAL PTY LTD, 18 Viscount Drive, Australia ~72: JAMES, Greg;PAINE, Robin~

2021/05270 ~ Complete ~54:DRILL STRING ROD ~71:Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: JANSSON, Tomas;PETTERSSON, Mattias~ 33:EP ~31:19163477.3 ~32:18/03/2019

2021/05246 ~ Provisional ~54:COMBUSTION OF MAGNETITE-BASED FUEL ~71:The Trustees for the time being of the KMN FULFILMENT TRUST, 8 Kestrel Street, Ebotse Golf Estate, Rynfield, BENONI 1504, SOUTH AFRICA, South Africa ~72: MAKGERU, Kabu Walter~

2021/05251 ~ Complete ~54:LAYOUT OF BLOWHOLES IN ASCENDING PIPE OF RH REFINING FURNACE ~71:Jiangxi University of Science and Technology, No. 86, Hongqi Avenue, Zhanggong District, Ganzhou City, Jiangxi Province, People's Republic of China;Shanghai Dianji University, No. 1350, Olive Road, Lingang New Town, Pudong New District, Shanghai, People's Republic of China;Xinyu Iron and Steel Co., Ltd., Yejin Road, Xinyu City, Jiangxi Province, People's Republic of China ~72: Cao Ruihong;Feng Xiaoming;Jiang Pingguo;Lai Chaobin;Liao Chunfa;Liu Jianfeng;Liu Min;Luo Diqiang;Shuai Yong;Sun Lefei;Yang Fan;Zhang Zhenming~

2021/05269 ~ Complete ~54:CREDIT WAGERING SYSTEM AND METHOD OF USE WITH LOAN AND WARRANTING ~71:Our IP Holding, LLC, 4178 Koval Lane, LAS VEGAS 89109, NV, USA, United States of America ~72: ELLIS, Gary E.;LARKIN, Gary;MACY, Craig H.~ 33:US ~31:62/901,148 ~32:16/09/2019;33:US ~31:63/035,462 ~32:05/06/2020

2021/05273 ~ Complete ~54:METHOD FOR VERIFYING THE IDENTITY OF A USER BY IDENTIFYING AN OBJECT WITHIN AN IMAGE THAT HAS A BIOMETRIC CHARACTERISTIC OF THE USER AND SEPARATING A PORTION OF THE IMAGE COMPRISING THE BIOMETRIC CHARACTERISTIC FROM OTHER PORTIONS OF THE IMAGE ~71:Identy Inc., 8 The Green, Suite 7471, DOVER 19901, DE, USA, United States of America ~72: ARAGON, Jesus;GUPTA, Hardik;MURUGAN, Satheesh;ZULFIKAR, Wazeer~ 33:EP ~31:19382137.8 ~32:26/02/2019

2021/05272 ~ Complete ~54:COMBINATION OF ANTIVIRAL AGENTS ~71:Obschestvo S Ogranichennoi Otvetstvennostyu "Prolongirovannye Lekarstva", ter. Skolkovo innovatsionnogo tsentra ul. Lugovaya, 4, str. 1, etazh 1, chat pom 4., MOSCOW 143026, RUSSIA, Russian Federation ~72: ANTON ANDREEVICH SMIRNOV;BIBILASHVILI, Robert Shalvovich;BIBILASHVILI, Robert Shalvovich;BOGDAN VITALIEVICH BROVCHENKO;KHANDAZHINSKAYA, Anastasia Lvovna;KHANDAZHINSKAYA, Anastasia Lvovna;KONONOV, Alexandr Vasilievich;KONONOV, Alexandr Vasilievich;KRAVCHENKO, Alexei Viktorovich;KRAVCHENKO, Alexei Viktorovich;SIMONYAN, Alina Ruslanovna;SIMONYAN, Alina Ruslanovna~ 33:RU ~31:2018147078 ~32:27/12/2018

2021/05285 ~ Complete ~54:ANTIBODY AGAINST HUMAN IL-4RA AND USE THEREOF ~71:AKESO BIOPHARMA, INC., 6 Shennong Road, Torch Development Zone Zhongshan, Guangdong, 528437, People's Republic of China ~72: BAIYONG LI;PENG ZHANG;YU XIA;ZHONGMIN WANG~ 33:CN ~31:201811618948.8 ~32:27/12/2018

2021/05249 ~ Complete ~54:RAPID DIAGNOSTIC METHOD ~71:Skin Rejuvenation Technologies (Pty) Ltd, Building 11, Southern Implants Office Park, 1 Albert Road, South Africa ~72: Dr. Baron, Samantha;Dr. Depfenhart, Markus~ 33:ZA ~31:2020/03165 ~32:28/05/2020

2021/05264 ~ Complete ~54:AUTOMATICALLY CONTROLLED, ADJUSTABLE-ANGLE APPARATUS FOR CALIBRATING SECTIONS OF ANIMAL BRAIN FOR EXPERIMENTATION ~71:NANTONG UNIVERSITY, No. 9 Seyan Road, Chongchuan, Nantong, Jiangsu, 226000, People's Republic of China ~72: CHEN, Zhong;HUANG, Yan;LIU, Zhan;PENG, Yuping;QIU, Yihua~

2021/05271 ~ Complete ~54:ENGINEERED PESTICIDAL PROTEINS AND METHODS OF CONTROLLING PLANT PESTS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: CHAE, Hyunsook S.~ 33:US ~31:62/807,941 ~32:20/02/2019

2021/05275 ~ Complete ~54:PROCESS OF MAKING 3-(4'-AMINOPHENYL)-2-METHOXYPROPIONIC ACID, AND ANALOGS AND INTERMEDIATES THEREOF ~71:Nogra Pharma Limited, 33 Sir John Rogerson's Quay, DUBLIN, 2, IRELAND, Ireland ~72: DEMARTIS, Salvatore;MCNULTY, Marie;VITI, Francesca~ 33:US ~31:62/802,802 ~32:08/02/2019

2021/05279 ~ Complete ~54:PRODUCTION OF BIO-BASED LIQUEFIED PETROLEUM GAS ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: MICHELLE KOCAL;RALPH GILLESPIE~ 33:US ~31:62/798,264 ~32:29/01/2019;33:US ~31:62/860,369 ~32:12/06/2019;33:US ~31:62/887,125 ~32:15/08/2019

2021/05282 ~ Complete ~54:PHOTOSENSITIZER AND CHELATING AGENT COMBINATIONS FOR USE AS INSECTICIDES ~71:SUNCOR ENERGY INC., Suncor Energy Centre, West Tower PO Box 2844, 150 – 6th Avenue SW Calgary, Alberta, T2P 3E3, Canada ~72: INNA TESHLEH;JUN LIU;LISA STEELE;MICHAEL FEFER~ 33:US ~31:62/806,110 ~32:15/02/2019

2021/05255 ~ Complete ~54:WATER-SOLUBLE MONASCUS RED PIGMENT AND PREPARATION METHOD THEREOF ~71:Tianjin University of Science and Technology, No. 9, 13th Street, Tianjin Economic and Technological Development Zone, Tianjin, People's Republic of China;Zaozhuang University, No. 1 Bei~39;an Road, Shizhong District, Zaozhuang City, Shandong Province, People's Republic of China ~72: Sun Zhongguan;Zhang Bosheng;Zhang Lihua~

2021/05259 ~ Complete ~54:REDUCED MATRIX CONSTRUCTION METHOD FOR ACCELERATING ITERATIVE SOLUTION OF CHARACTERISTIC BASIS FUNCTIONS METHOD ~71:Anhui University of Science and Technology, No. 168 Taifeng Street, Huainan City, Anhui Province, People's Republic of China ~72: Nie Wenyan;Ouyang Mingsan;Sun Yufa;Wang Pan;Wang Zhi;Wang Zhonggen~

2021/05274 ~ Complete ~54:CLEANING COMPOSITIONS COMPRISING ENZYMES ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: LANT, Neil Joseph;LATIMER, Katherine Esther~ 33:EP ~31:19162988.0 ~32:14/03/2019

2021/05284 ~ Complete ~54:AN EXTRUDED SOAP BAR WITH HIGH WATER CONTENT ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: PRAVIN BANKAR;SIMONE SETHNA;VENKATA SATYANARAYANA MURTHY KAMSU~ 33:EP ~31:19157900.2 ~32:19/02/2019

2021/05247 ~ Provisional ~54:WIDE-BAND CABLE LOSS COMPENSATION SYSTEM ~71:POYNTING ANTENNAS (PTY) LIMITED, Unit 4, N1 Industrial Park, Landmarks Avenue, South Africa ~72: FERREIRA, Riaan;FOURIE, Andries, Petrus, Cronje~

2021/05260 ~ Complete ~54:USE OF PRG4 AS AN ANTI-INFLAMMATORY AGENT ~71:LUBRIS LLC, 111 Speen Street, Suite 303, Framingham, Massachusetts, 01701, United States of America;RHODE ISLAND HOSPITAL, 593 Eddy Street, Providence, Rhode Island, 02903, United States of America ~72: ADAM CHODOBSKI;BENJAMIN D SULLIVAN;EDWARD R TRUITT;GREGORY D JAY;JAWED FAREED;JOANNA SZMYDYNGER-CHODOBSKA;KHALED ELSAID;ROMAN KRAWETZ;TANNIN AVERY SCHMIDT~ 33:US ~31:62/107,799 ~32:26/01/2015;33:US ~31:62/273,059 ~32:30/12/2015

2021/05267 ~ Complete ~54:DIRECT ACTING ELECTRONIC LOCKING DIFFERENTIAL ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: RAJENDRAN, Dileep~ 33:IN ~31:201911001161 ~32:10/01/2019

2021/05252 ~ Complete ~54:DIFFUSE-ROW PLANT CULTIVATION HANGING TRAY ~71:Central South University of Forestry and Technology, 498 Shaoshan South Road, Tianxin District, Changsha City, Hunan Province, People's Republic of China ~72: Yang Liuqing~

2021/05281 ~ Complete ~54:POLYPEPTIDES USEFUL FOR GENE EDITING AND METHODS OF USE ~71:LIFEEDIT THERAPEUTICS, INC., 104 T.W. Alexander Drive, Building 20, Research Triangle Park, North

Carolina, 27709, United States of America ~72: ALEXANDRA BRINER CRAWLEY;MARK MOORE;MICHAEL LASSNER;RODOLPHE BARRANGOU;TEDD D ELICH;TYSON D BOWEN~ 33:US ~31:62/785,391
 ~32:27/12/2018;33:US ~31:62/790,256 ~32:09/01/2019;33:US ~31:62/790,258 ~32:09/01/2019;33:US
 ~31:62/790,261 ~32:09/01/2019;33:US ~31:62/790,262 ~32:09/01/2019;33:US ~31:62/790,266
 ~32:09/01/2019;33:US ~31:62/932,169 ~32:07/11/2019

- APPLIED ON 2021/07/27 -

2021/05321 ~ Provisional ~54:KEY GUARD ~71:SIFISO SIPHO THUBANE, 1630, SIYABUSWA D, South Africa
 ~72: SIFISO SIPHO THUBANE~

2021/05318 ~ Complete ~54:PHOSPHORYLATION ULTRA-FAST STRAW FIBER ADSORPTION MATERIAL,
 PREPARATION METHOD AND APPLICATION THEREOF ~71:SOUTH CHINA NORMAL UNIVERSITY, No. 378
 Waihuan West Road, Panyu District, Guangzhou, People's Republic of China ~72: CHEN, Shukai;YANG,
 Yuebei;YANG, Yufang;ZENG, Hao;ZHAN, Yiru;ZHENG, Liuchun~ 33:CN ~31:201811363536.4 ~32:16/11/2018

2021/05299 ~ Complete ~54:METHODS AND COMPOSITIONS FOR INHIBITING EXPRESSION OF CYP27A1
 ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72:
 SAXENA, Utsav~ 33:US ~31:62/804,410 ~32:12/02/2019

2021/05305 ~ Complete ~54:ANGLE COCK REPAIR CARTRIDGE ~71:New York Air Brake, LLC, 748 Starbuck
 Avenue, United States of America ~72: NEWTON, Steven;O'ROURKE, Jerome;ROWLAND, Danial~ 33:US
 ~31:62/797,656 ~32:28/01/2019

2021/05315 ~ Complete ~54:SYSTEM AND METHOD OF MANAGING CARRYBACK IN SURFACE HAULAGE
 ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: HENDRICKS, Carl F. B.~
 33:US ~31:16/262,145 ~32:30/01/2019

2021/05322 ~ Provisional ~54:SIGNAL COUNT - SOCIAL DISTANCE DEVICE ~71:Sihle Ngcamu, 19 Acacia
 avenue, South Africa ~72: Sihle Ngcamu~

2021/05296 ~ Complete ~54:ELECTRONIC VAPING DEVICE AND COMPONENTS THEREOF ~71:ALTRIA
 CLIENT SERVICES LLC, 6601 West Broad Street, Richmond, Virginia, 23230, United States of America ~72:
 BARRY SMITH;DOUGLAS BURTON;EDMOND CADIEUX;PATRICK COBLER;PETER LIPOWICZ~ 33:US
 ~31:61/946,376 ~32:28/02/2014

2021/05304 ~ Complete ~54:LTBP COMPLEX-SPECIFIC INHIBITORS OF TGF β AND USES THEREOF
 ~71:Scholar Rock, Inc., 301 Binney Street, 3rd Floor, CAMBRIDGE 02142, MA, USA, United States of America
 ~72: CORICOR, George;DATTA, Abhishek;FOGEL, Adam;JACKSON, Justin W.;LITTLEFIELD,
 Christopher;MCCREARY, Julia;SALOTTO, Matthew;SCHURPF, Thomas;STEIN, Caitlin;STREICH Jr.,
 Frederick;WAWERSIK, Stefan~ 33:US ~31:62/798,927 ~32:30/01/2019

2021/05314 ~ Complete ~54:SYSTEM AND METHOD FOR MANAGING CARRYBACK THRESHOLDS IN
 SURFACE HAULAGE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72:
 HENDRICKS, Carl F.B.~ 33:US ~31:16/262,126 ~32:30/01/2019

2021/05295 ~ Complete ~54:RAPID LEAKAGE DETECTION DEVICE FOR MUNICIPAL WATER SUPPLY
 PIPELINE ~71:Zhengzhou University of Aeronautics, Zhengzhou University of Aeronautics east campus, Ping
 'an Avenue, Jinshui District, Zhengzhou, Henan, 450000, People's Republic of China ~72: Gu Zhanfei;Guo
 Yibin;Li Lianxiu;Wang Xiang;Wu Shengwei~ 33:CN ~31:202110310264.7 ~32:23/03/2021

2021/05286 ~ Provisional ~54:RAZOR ~71:DE KLERK, John Christopher, 8 Regency Crescent, Leopard Rock Estate, Platterkloof, South Africa;GOLDING, Andrew Mark, Wittebomen-Main House, 11 Pear Lane, Constantia, South Africa ~72: DE KLERK, John Christopher;GOLDING, Andrew Mark~

2021/05294 ~ Complete ~54:AN APPLICATION METHOD OF BASIC MAGNESIUM CHLORIDE AND PHOSPHORUS ADSORBENT ~71:Zhengzhou University of Aeronautics, No. 2, Daxue Middle Road, Erqi District, Zhengzhou, Henan, People's Republic of China ~72: Binguo Zheng;Chunguang Li;Haiping Liu;He Tao;Jianyun Li;Jiehu Cui;Junling Niu;Ke Xu;Lei Liu;Lingyan Jiang;Lizhen Liang;Qingzhao Li;Xiangping Wang;Xiaofeng Jia;Xiaohui Zhao;Xu Luo;Yu Sun~

2021/05300 ~ Complete ~54:METHODS, BASE STATION AND TERMINAL DEVICE FOR TWO-STEP RANDOM ACCESS PROCEDURE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: GRÖVLEN, Asbjörn.;HARRISON, Robert, Mark;LIN, Zhipeng~ 33:CN ~31:PCT/CN2018/125611 ~32:29/12/2018

2021/05310 ~ Complete ~54:PROBIOTIC COMPOSITIONS COMPRISING LACTOBACILLUS REUTERI STRAINS AND METHODS OF USE ~71:ELANCO US INC., 2500 Innovation Way, Greenfield, Indiana, 46140, United States of America ~72: ARVIND KUMAR;DHARANESH MAHIMAPURA GANGAIAH~ 33:US ~31:62/801,307 ~32:05/02/2019

2021/05298 ~ Complete ~54:COMPOSITION COMPRISING CYSTEINE AND A PARTICULAR FATTY ACID TRIGLYCERIDE ~71:L'OREAL, 14, rue Royale, France ~72: ATTWELL, Shannon;DONCK, Simon;EASON, Jason;MOLAMODI, Kwezikazi~

2021/05297 ~ Complete ~54:ELECTROSURGICAL APPARATUS AND METHOD ~71:CREO MEDICAL LIMITED, Riverside Court, Beaufort Park, Chepstow, Monmouthshire, NP16 5UH, United Kingdom ~72: CHRISTOPHER PAUL HANCOCK;DAVID WEBB;GEORGE ULLRICH;JULIAN MARK EBBUTT;LOUIS TURNER;SIMON MEADOWCROFT~ 33:GB ~31:1609537.4 ~32:31/05/2016

2021/05307 ~ Complete ~54:BOTTLE CAP ~71:GUALA CLOSURES DEUTSCHLAND GMBH, Mainzer Straße 185, 67547 Worms, Germany ~72: JAVIER MUÑOZ~ 33:DE ~31:10 2019 102 213.4 ~32:29/01/2019

2021/05309 ~ Complete ~54:DIAMINO-SUBSTITUTED PYRIDINES AND PYRIMIDINES AS HERBICIDES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: SAPTARSHI DE~ 33:US ~31:62/800,418 ~32:01/02/2019;33:US ~31:62/940,884 ~32:26/11/2019

2021/05316 ~ Complete ~54:SYSTEM AND METHOD FOR DETERMINING CARRYBACK IN SURFACE HAULAGE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: HENDRICKS, Carl F.B.~ 33:US ~31:16/262,098 ~32:30/01/2019

2021/05289 ~ Provisional ~54:A METHOD OF CROWD CONTROL UTILIZING A LUBRICANT DISPENSING MEANS ~71:Ziev Shani, 36 15th street, Marlboro Gardens, Sandton, South Africa ~72: Ziev Shani~

2021/05291 ~ Complete ~54:ANTI-CD154 ANTIBODIES AND METHODS OF USING THEM ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: FRANSSON, Johan;LEU, Jocelyn;OBMOLOVA, Galina;SURI, Anish;TENG, Fang;TEPLYAKOV, Alexey;ZHOU, Hong~ 33:US ~31:62/201,150 ~32:05/08/2015;33:US ~31:62/367,660 ~32:28/07/2016

2021/05303 ~ Complete ~54:MALE EXTERNAL CATHETER ~71:GUESOUM, Souheil, 17 Bis, ValD' hydra, Algeria;STAALI, Amine, 104, DIMAS Building Block 5, Muweilah Commercial, United Arab Emirates ~72: GUESSOUM, Souheil;STAALI, Amine~ 33:US ~31:62/794,805 ~32:21/01/2019

2021/05313 ~ Complete ~54:SYSTEM AND METHOD OF AUTOMATED CLEAN OUT OF CARRYBACK IN SURFACE HAULAGE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: HENDRICKS, Carl F.B.~ 33:US ~31:16/262,106 ~32:30/01/2019

2021/05290 ~ Complete ~54:CROP SEED SCREENING DEVICE WITH DUST REMOVAL DEVICE ~71:HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER, No. 546, Xiaoran South Road, People's Republic of China;HANGZHOU XIAOSHAN AGRICULTURAL SCIENCE AND TECHNOLOGY RESEARCH INSTITUTE, No. 885, Tonghui South Road, People's Republic of China;ZHEJIANG FORESTRY TECHNOLOGY EXTENDED STATION, No. 226, Kaixuan Road, People's Republic of China;ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), No. 508, Cunwang Village, Wangcun, Youhu Line, Linpu Town, People's Republic of China ~72: AN, Xia;CHEN, Changli;HE, Zhen;JIN, Guanrong;LI, Lufeng;LI, Wenlue;LIU, Tingting;LOU, Xuping;LUO, Xiahong;WANG, Xiang;XU, Yajun;YING, Jinyao;ZHOU, Huaping;ZHU, Guanlin~

2021/05306 ~ Complete ~54:FIBER FOR ARTIFICIAL HAIRS, ARTIFICIAL HAIR, METHOD FOR PRODUCING FIBER FOR ARTIFICIAL HAIRS, AND METHOD FOR PRODUCING ARTIFICIAL HAIR ~71:ADERANS CO., LTD., 1-6-3 Shinjuku, Shinjuku-ku, Tokyo, 1608429, Japan;SPIBER INC., 234-1, Aza Mizukami, Kakuganji, Tsuruoka-shi, Yamagata, 9970052, Japan ~72: HIDEKI TAKAHASHI;MASATOSHI SEKI;REN ITO;YUNOSUKE ABE~ 33:JP ~31:2019-016458 ~32:31/01/2019;33:JP ~31:2019-016472 ~32:31/01/2019

2021/05317 ~ Complete ~54:COMPOSITE MATERIAL, ITS PREPARATION METHOD, AND ITS USE AS ELECTRODE MATERIAL ~71:GUANDONG OCEAN UNIVERSITY, East of Huguangyan, Mazhang District, Guangdong Province, People's Republic of China ~72: YANG, Naide;ZHAO, Juan~ 33:CN ~31:201911011296.6 ~32:23/10/2019

2021/05287 ~ Provisional ~54:A LOCKER AND METHOD ADVERTISING THEREON ~71:Good Try (Pty) Ltd, 11 Commerce Crescent, Kramerville, Sandton, Gauteng, 2090, South Africa ~72: Lance Steven Baum;Michael Gewer~

2021/05293 ~ Complete ~54:PRIMER SETS AND A KIT FOR ISOTHERMAL AMPLIFICATION OF A NOVEL CORONAVIRUS SARS-COV-2 ORF1AB GENE AND N GENE ~71:Dalian Nationalities University, 18 Liaoh West Road, Dalian Economic and Technological Development Zone, LIAONING PROVINCE, CHINA (P.R.C.), People's Republic of China;Tianjin Normal University, 393 Binshui West Road, XIQING DISTRICT, TIANJIN, CHINA (P.R.C.), People's Republic of China ~72: CAO, Jijuan;JI, Chao;ZHENG, Qiuyue;ZHENG, Wenjie~

2021/05301 ~ Complete ~54:TARGETED DELIVERY OF THERAPEUTIC MOLECULES ~71:SIRNAOMICS, INC., 401 PROFESSIONAL DR., SUITE 280, GAITHERSBURG, MARYLAND 20879, USA, United States of America;ZHANG, Peter, NO. 199 DONG PING ST., SUZHOU INDUSTRY PARK, SUZHOU 215125, CHINA, United States of America ~72: EVANS, David, M.;LU, Alan;LU, Patrick, Y.;LU, Xiaoyong;XU, John;ZHANG, Peter~ 33:US ~31:62/786,213 ~32:28/12/2018

2021/05311 ~ Complete ~54:FELINE FOOD COMPOSITION ~71:MARS, INCORPORATED, 6885 Elm Street, Mclean, Virginia, 22101, United States of America ~72: INGRID VAN HOEK~ 33:EP ~31:19305123.2 ~32:01/02/2019

2021/05288 ~ Provisional ~54:A STOVE ~71:NU-WAY CLEAN ENERGY (PTY) LTD, 367 SURREY AVENUE, RANDBURG, JOHANNESBURG 2160, SOUTH AFRICA, South Africa ~72: MANN, Gordon~

2021/05292 ~ Complete ~54:WAGER CREDIT MANAGEMENT SYSTEM AND METHOD OF USE ~71:Our IP Holding, LLC, 4178 Koval Lane, LAS VEGAS 89109, NV, USA, United States of America ~72: ELLIS, Gary E.;MACY, Craig H.~ 33:US ~31:62/703,781 ~32:26/07/2018;33:US ~31:62/711,356 ~32:27/07/2018;33:US ~31:62/814,407 ~32:06/03/2019

2021/05302 ~ Complete ~54:NEUROTENSINERGIC AGONISTS AND METHODS OF USING SAME PREVENTING OR TREATING PAIN ~71:SOCOPRA SCIENCES SANTE ET HUMAINES S.E.C., 2500 Boul. de L'université, PAV. Irénée-Pinard, Canada ~72: CHARTIER, Magali;DESGAGNE, Michael;LONGPRE, Jean-Michel;MARSAULT, Éric;SARRET, Philippe;SOUSBIE, Marc~ 33:US ~31:62/803,041 ~32:08/02/2019

2021/05312 ~ Complete ~54:A GENETICALLY MODIFIED LACTOBACILLUS AND USES THEREOF ~71:ELANCO US INC., 2500 Innovation Way, Greenfield, Indiana, 46140, United States of America ~72: ARVIND KUMAR;DHARANESH MAHIMAPURA GANGAIAH;LIN LIU;SHRINIVASRAO PEERAJIRAO MANE;VALERIE ELYSE RYAN~ 33:US ~31:62/801,307 ~32:05/02/2019

2021/05308 ~ Complete ~54:PROCESS FOR THE PREPARATION OF A SUBSTITUTED IMIDAZOQUINOLINE ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: CHRISTOPHE HENRY~ 33:EP ~31:PCT/EP2019/055793 ~32:07/03/2019

- APPLIED ON 2021/07/28 -

2021/05333 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR CALCULATING AN INSURANCE PREMIUM ~71:ONESPARK (PTY) LTD, 76 Boundary Road, Illovo, South Africa ~72: GILL, Francis Arthur;KAPLAN, Josh Tana;SMITH, Gregory Warren~ 33:ZA ~31:2020/04814 ~32:04/08/2020

2021/05348 ~ Complete ~54:METHODS AND DEVICES FOR CODING AND DECODING A DATA STREAM REPRESENTING AT LEAST ONE IMAGE ~71:Orange, 111 quai du Président Roosevelt, ISSY-LES-MOULINEAUX 92130, FRANCE, France ~72: ABDOLI, Mohsen;HENRY, Félix~ 33:FR ~31:1901228 ~32:07/02/2019

2021/05355 ~ Complete ~54:ANTI-SEPARATION DESIGN FOR CONCRETE-FILLED STEEL TUBE MEMBER AND SLEEPER BLOCK OF BALLASTLESS TRACK ~71:CHINA RAILWAY SIYUAN SURVEY AND DESIGN GROUP CO.,LTD., No.745, Heping Avenue, Yangyuan, Wuchang District, Wuhan, Hubei, 430060, People's Republic of China ~72: BIN ZHU;LI SUN;QIHANG LI;QIUYI LI;SEN RONG WANG;SHIJIE ZHANG;YANLI YANG;YUHONG ZHANG~ 33:CN ~31:201910672719.2 ~32:24/07/2019

2021/05331 ~ Provisional ~54:HARVESTER TANK ASSEMBLY AND FILTRATION SYSTEM THEREFOR ~71:SINGH, Ajit, 33 Himalayas Road, Merebank, Durban 4052, KZN, SOUTH AFRICA, South Africa ~72: SINGH, Ajit~

2021/05343 ~ Complete ~54:SYSTEM AND METHOD FOR OPERATING A GAS-POWERED STOVE WITH NETWORK-CONNECTED METERING ~71:CIRCLETECH LIMITED, Suite 3.01, 16 Berkeley Street, United Kingdom ~72: RODRIGUEZ SANCHEZ, Francisco Sebastian~ 33:US ~31:62/836,158 ~32:19/04/2019

2021/05356 ~ Complete ~54:NEIGHBOURING SAMPLE SELECTION FOR INTRA PREDICTION ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., ROOM B-0035 2/F NO.3 BUILDING NO.30 SHIXING ROAD SHIJINGSHAN DISTRICT, BEIJING, 100041, People's Republic of China;BYTEDANCE INC., 12655

West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America
~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2019/075874
~32:22/02/2019;33:CN ~31:PCT/CN2019/075993 ~32:24/02/2019;33:CN ~31:PCT/CN2019/076195
~32:26/02/2019;33:CN ~31:PCT/CN2019/079396 ~32:24/03/2019;33:CN ~31:PCT/CN2019/079431
~32:25/03/2019;33:CN ~31:PCT/CN2019/079769 ~32:26/03/2019

2021/05346 ~ Complete ~54:METHOD AND APPARATUS OF CROSS-COMPONENT LINEAR MODELING FOR
INTRA PREDICTION ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang
District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN,
Jianle;FILIPPOV, Alexey Konstantinovich;MA, Xiang;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/786,563
~32:31/12/2018

2021/05359 ~ Complete ~54:BIOELECTRONIC CIRCUITS, SYSTEMS AND METHODS FOR PREPARING AND
USING THEM ~71:ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, 1475 N.
Scottsdale Rd., Ste. 200 Scottsdale, Arizona, 85257, United States of America ~72: BINTIAN ZHANG;HANQING
DENG;STUART LINDSAY~ 33:US ~31:62/799,006 ~32:30/01/2019

2021/05350 ~ Complete ~54:BI-LIGAND DRUG CONJUGATE AND USE THEREOF ~71:Coherent Biopharma
(Suzhou), Limited, C36-2F No. 218 Xinghu Street, Industrial Park, SUZHOU 215123, JIANGSU, CHINA (P.R.C.),
People's Republic of China ~72: DAI, Jian;HU, Xinli;HUANG, Baohua Robert;LIU, Xiaodong;SHAO, Jun;TAN,
Wei;WANG, Zhongbo;XIE, Xueyuan~ 33:IB ~31:2019/073962 ~32:30/01/2019;33:CN ~31:202010048593.4
~32:16/01/2020

2021/05353 ~ Complete ~54:PYRAZOLOPYRIDINES AND TRIAZOLOPYRIDINES AS A2A / A2B INHIBITORS
~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72:
HUANG, Taisheng;WANG, Xiaozhao~ 33:US ~31:62/798,180 ~32:29/01/2019

2021/05334 ~ Complete ~54:REACTANT FLOW PATTERN ARRANGEMENT ~71:University of the Western
Cape, Robert Sobukwe Road, South Africa ~72: Clement CORNELIUS;Olivia BARRON;Piotr BUJLO;Sivakumar
PASUPATHI;Vladimir Mikhailovich LINKOV~ 33:ZA ~31:2020/05126 ~32:19/08/2020

2021/05344 ~ Complete ~54:SULCARDINE SALTS ~71:HUYA BIOSCIENCE INTERNATIONAL, LLC, 12531
High Bluff Drive, Suite 138, United States of America ~72: BENSON, Joseph Edward Gordon;COLLINS,
Sarah;ELLIOTT, Gary T.;GILLINGS, Mireille;GOODENOW, Robert;REECE, Hayley Ann;ROMANO, Suzanne
J.;TYREE, Curtis~ 33:US ~31:62/798,467 ~32:29/01/2019;33:US ~31:62/959,687 ~32:10/01/2020

2021/05358 ~ Complete ~54:5-METHOXY-N,N-DIMETHYLTRYPTAMINE (5-MEO-DMT) FOR TREATING
DEPRESSION ~71:GH RESEARCH IRELAND LIMITED, Mespil House, 4 Sussex Road, Dublin 4, D04 T4A6,
Ireland ~72: THEIS TERWEY~ 33:EP ~31:19158774.0 ~32:22/02/2019

2021/05335 ~ Complete ~54:BIPOLAR PLATE ARRANGEMENT ~71:University of the Western Cape, Robert
Sobukwe Road, South Africa ~72: Clement CORNELIUS;Olivia BARRON;Piotr BUJLO;Sivakumar
PASUPATHI;Vladimir Mikhailovich LINKOV~ 33:ZA ~31:2020/05127 ~32:19/08/2020

2021/05352 ~ Complete ~54:HERBICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse
67, BASEL 4058, SWITZERLAND, Switzerland ~72: ARMSTRONG, Sarah;FELLMANN, Julia;HALL, Gavin
John;KANDUKURI, Sandeep Reddy;MCGRANAGHAN, Andrea;MOORHOUSE, Sian;NG, Sean;PHADTE,
Mangala;SCUTT, James Nicholas;SONAWANE, Ravindra;THOMSON, Niall Rae;WILLETTS, Nigel
James;WUERFFEL, Raymond Joseph~ 33:IN ~31:201911006088 ~32:15/02/2019;33:IN ~31:201911025822
~32:28/06/2019

2021/05361 ~ Complete ~54:MOBILE WORK MACHINE AND METHOD FOR OPERATING A MACHINE OF THIS TYPE ~71:LIEBHERR-MINING EQUIPMENT COLMAR SAS, 49 rue Frédéric Hartmann, France ~72: HAHN, Philipp;LEROY, Alexis~ 33:DE ~31:10 2019 101 990.7 ~32:28/01/2019

2021/05323 ~ Provisional ~54:METAL-AIR FUEL CELL WITH REPLACEABLE ANODES ~71:NEILL HUMAN, 18 Dianthus, Street, South Africa ~72: NEILL HUMAN~

2021/05324 ~ Provisional ~54:METAL-AIR FUEL CELL WITH REPLACEABLE ANODES ~71:NEILL HUMAN, 18 Dinathus Street, South Africa ~72: NEILL HUMAN~

2021/05340 ~ Complete ~54:MOULD PLATE ~71:KME SPECIAL PRODUCTS GMBH & CO. KG, KLOSTERSTRASSE 29, 49074 OSNABRÜCK, GERMANY, Germany ~72: HUGENSCHÜTT, Gerhard;ROLF, Thomas~ 33:DE ~31:10 2019 102 313.0 ~32:30/01/2019

2021/05357 ~ Complete ~54:COMPOSITIONS COMPRISING 5-METHOXY-N,N-DIMETHYLTRYPTAMINE (5-MEO-DMT) FOR USE IN TREATING MENTAL DISORDERS ~71:GH RESEARCH IRELAND LIMITED, Mespil House, 4 Sussex Road, Dublin 4, D04 T4A6, Ireland ~72: THEIS TERWEY~ 33:EP ~31:19158806.0 ~32:22/02/2019

2021/05325 ~ Provisional ~54:GLAND SERVICE REGULATOR ~71:ROBINSON, Gavin Stuart, c/o 663 Van Gogh Crescent, MORELETA PARK, Pretoria 0044, Gauteng, SOUTH AFRICA, South Africa ~72: ROBINSON, Gavin Stuart~

2021/05328 ~ Provisional ~54:APPARATUS AND METHOD FOR ALIGNING A DRILLING MACHINE ~71:GST RESEARCH AND DEVELOPMENT (PTY) LTD., Co R 512 and N4 offramp, Hartbeespoort, North West Province, 0216, South Africa ~72: PETRUS HENDRIK ROODT~

2021/05345 ~ Complete ~54:TREATMENT METHOD AND DEVICE FOR DEPOSITING A BARRIER-EFFECT COATING ~71:Innovative Systems Et Technologies (Isytech), 9 Rue Fulgence Bienvenue, LANNION 22300, FRANCE, France ~72: BELDI, Nasser;CHOLLET, Patrick;JAOUEN, Mikaël;OGE, Fabrice~ 33:FR ~31:1900426 ~32:17/01/2019

2021/05330 ~ Provisional ~54:RAINWATER DISTRIBUTION ARRANGEMENT ~71:SINGH, Ajit, 33 Himalayas Road, Merebank, Durban 4052, KZN, SOUTH AFRICA, South Africa ~72: SINGH, Ajit~

2021/05339 ~ Complete ~54:IMIDAZO[2,1-F][1,2,4]TRIAZIN-4-AMINE DERIVATIVES AS TLR7 AGONIST ~71:BEIGENE, LTD., c/o Maurant Ozannes Corporate Services (Cayman) Limited, 94 Solaris Avenue, Camana Bay, Cayman Islands ~72: CHEN, Gang;LI, Jing;MIAO, Jianzhuang;ZHANG, Guoliang;ZHOU, Changyou~ 33:CN ~31:PCT/CN2019/074732 ~32:07/02/2019;33:CN ~31:PCT/CN2019/098757 ~32:31/07/2019;33:CN ~31:PCT/CN2020/073673 ~32:22/01/2020

2021/05351 ~ Complete ~54:ROD HANDLER APPARATUS IN CORE DRILLING ~71:Services de Forage Orbit Garant Inc., 3200 Boul. Jean-Jacques Cossette, VAL-D'OR J9P 6Y6, QUÉBEC, CANADA, Canada ~72: BERNARD, Yves;BERNIER, Jocelyn;LAROSE, Daniel;ROSE, Mark~ 33:US ~31:62/798,160 ~32:29/01/2019

2021/05337 ~ Complete ~54:ORGANIC-INORGANIC COMPOSITE INTERCALATION LAYERED DOUBLE HYDROXIDES-BASED CORROSION INHIBITOR, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: JIN, Zuquan;LI, Ning;LI,

Zhe;WANG, Penggang;XIONG, Chuansheng;XU, Xiangbo;YU, Yong;ZHANG, Xiaoying~ 33:CN
~31:202010779819.8 ~32:05/08/2020

2021/05338 ~ Complete ~54:IMIDAZO[2,1-F][1,2,4]TRIAZIN-4-AMINE DERIVATIVES AS TLR7 AGONIST
~71:BEIGENE, LTD., c/o Mourant Ozannes Corporate Services (Cayman) Limited, 94 Solaris Avenue, Camana
Bay, Cayman Islands ~72: CHEN, Gang;MIAO, Jianzhuang;ZHANG, Guoliang;ZHOU, Changyou~ 33:CN
~31:PCT/CN2019/074732 ~32:07/02/2019;33:CN ~31:PCT/CN2019/098757 ~32:31/07/2019;33:CN
~31:PCT/CN2020/073673 ~32:22/01/2020

2021/05341 ~ Complete ~54:TRAVELING VEHICLE ~71:KUBOTA CORPORATION, 2-47 SHIKITSUHIGASHI 1-
CHOME, NANIWA-KU, OSAKA-SHI, OSAKA 5568601, JAPAN, Japan ~72: SONOHATA, Ryosuke;WATANABE,
Masatoshi~ 33:JP ~31:2019-019206 ~32:05/02/2019

2021/05329 ~ Provisional ~54:A BICYCLE RACK FOR A VEHICLE ~71:ROCK SOLID INDUSTRIES
INTERNATIONAL (PTY) LTD, 46 Eden Park Drive, Mkondeni, South Africa ~72: JOUBERT, Jozua
Hermanus;VOSS, Michael~

2021/05347 ~ Complete ~54:LIS BATTERY WITH LOW SOLVATING ELECTROLYTE ~71:SCEYE SA, Place
Saint-François 1, LAUSANNE 1003, SWITZERLAND, Switzerland ~72: ABENDROTH, Thomas;ALTHUES,
Holger;DÖRFLER, Susanne;HÄRTEL, Paul;KASKEL, Stefan;KIM, David;SCHUMM,
Benjamin;VESTERGAARD FRANDSEN, Mikkel;WELLER, Christine~ 33:US ~31:62/793,474 ~32:17/01/2019

2021/05360 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING MAST CELL GASTRITIS,
MAST CELL ESOPHAGITIS, MAST CELL ENTERITIS, MAST CELL DUODENITIS, AND/OR MAST CELL
GASTROENTERITIS ~71:ALLAKOS INC., 975 Island Drive, #201 Redwood City, California, 94065, United States
of America ~72: AMOL KAMBOJ;BHUPINDER SINGH;BRADFORD ANDREW YOUNGBLOOD;HENRIK
RASMUSSEN;SIMON GREENWOOD~ 33:US ~31:62/806,604 ~32:15/02/2019;33:US ~31:62/925,704
~32:24/10/2019

2021/05332 ~ Provisional ~54:DISSOLVABLE SACHET ~71:VISSER, Righardt Kobus, 84 Fagan street, Strand,
South Africa ~72: VISSER, Righardt Kobus~

2021/05327 ~ Provisional ~54:CONCEALED STRUCTURAL ELEMENT FASTENING SYSTEM ~71:HICKLEY,
Nicolaas Hendrik, 922 Carnoustie Crescent, Copperleaf Golf and Country Estate, South Africa ~72: HICKLEY,
Nicolaas Hendrik~

2021/05336 ~ Complete ~54:A MEDICAL VENTILATOR ~71:MOBIVENT VENTILATOR (PTY) LTD., Corner of
Solomon Mahlangu Dr and Bendeman Blvd, Silverlakes, Pretoria, 0054, South Africa ~72: DAVID HERCULAS
MARITZ BOTHA;GERHARDUS ALBERTUS GEEL;GYSBERTUS PITZER;JOHANNES FREDERICK DE BEER~
33:ZA ~31:2020/04753 ~32:31/07/2020

2021/05354 ~ Complete ~54:PIPE ASSEMBLY INSULATION AND VAPOR BARRIER ~71:VICTAULIC
COMPANY, 4901 Kesslersville Road, United States of America ~72: GREY, Adam M.;KUEHNER, Ryan
D.;MARUNICH, Jacob M.;WEBSTER, Jeffrey J.~ 33:US ~31:62/811,818 ~32:28/02/2019

2021/05363 ~ Complete ~54:FILM ~71:INNOVIA FILMS LTD, Station road, Wigton, United Kingdom ~72:
HEWITT, Jonathan;KONKEL, Christopher~ 33:GB ~31:1901263.2 ~32:30/01/2019

2021/05326 ~ Provisional ~54:METALLO-BETA-LACTAMASE INHIBITORS ~71:UNIVERSITY OF KWAZULU-
NATAL, Office of Registrar, University Road, Chiltern Hills, 3629 Westville, SOUTH AFRICA, South

Africa;UNIVERSITY OF ZULULAND, Richards Bay, 3900, SOUTH AFRICA, South Africa ~72: ARVIDSSON, Per I;GOVENDER, Thavendran;KRUGER, Hendrik G;NAICKER, Tricia;PETERS, Byron~

2021/05342 ~ Complete ~54:CHARGING ASSEMBLY FOR CHARGING AN ELECTRIC VEHICLE ~71:EASEE AS, GRENSEVEIEN 19, 4313 SANDNES, NORWAY, Norway ~72: HELMIKSTØL, Jonas;MØLGAARD, Steffen;NÆSJE, Kjetil;STENGEL, Ola~ 33:NO ~31:20190023 ~32:07/01/2019

2021/05349 ~ Complete ~54:A CONJUGATE OF AN AMANITA TOXIN WITH BRANCHED LINKERS ~71:Hangzhou DAC Biotech Co., Ltd, Building 12, No. 260 Sixth Street, ZhengTaiZhongZi Sci. & Tech Park, HEDA, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: BAI, Lu;CAO, Mingjun;CHEN, Binbin;CHEN, Xiaoxiao;DU, Yong;GAI, Shun;GUO, Huihui;GUO, Zhixiang;HUANG, Yuanyuan;JIA, Junxiang;KONG, Xiangfei;LAI, Juan;LEI, Jun;LI, Wenjun;LI, Yanhua;LIN, Cheng;TONG, Qianqian;TONG, Yanhong;XIE, Hongsheng;XU, Yifang;YANG, Chengyu;YANG, Qingliang;YANG, Yanlei;YE, Hangbo;ZHANG, Xiuzheng;ZHAO, Linyao;ZHAO, Robert Yongxin;ZHENG, Jun;ZHOU, Xiaomai;ZHUO, Xiaotao~

2021/05362 ~ Complete ~54:A CONTAINER AND A CLOSURE FOR A CONTAINER ~71:THREADLESS CLOSURES LIMITED, The Priory, United Kingdom ~72: FRASER, Anthony Henry Joseph;HEIN, John~

- APPLIED ON 2021/07/29 -

2021/05388 ~ Complete ~54:SYSTEM FOR ULTRASONIC MONITORING OF A SPACE ABOVE THE CORE OF A NUCLEAR REACTOR ~71:State Atomic Energy Corporation "Rosatom" on behalf of The Russian Federation, ul. Bolshaya Ordynka, 24, Russian Federation ~72: GREBENKIN, Yuriy Petrovich;NEVEROV, Vitaliy Aleksandrovich;SOKOLOV, Viktor Mikhailovich;ZHULINSKIY, Sergey Ivanovich~ 33:RU ~31:2018141726 ~32:26/11/2018

2021/05368 ~ Provisional ~54:GLOW IN THE DARK PAINT FOR ROAD SIGNS, ROAD & TRANSPORT INFRASTRUCTURE AND OTHER INDUSTRIES ~71:Charmaine Thembeke Botha, 155 Johnson Street, Andeon, South Africa ~72: Charmaine Thembeke Botha~

2021/05396 ~ Complete ~54:LUG STUD PROTECTOR AND SYSTEM INCLUDING SAME ~71:Hutchinson Industries, Inc., 460 Southard Street, TRENTON 08638, NJ, USA, United States of America ~72: ARDOVINI, Paul;RENSON, Christopher R.~ 33:US ~31:62/795,216 ~32:22/01/2019

2021/05401 ~ Complete ~54:OPEN MESH LENO FABRIC, A BAG MADE FROM IT, AND A METHOD OF MAKING THE LENO FABRIC ~71:LOHIA CORP LIMITED, D3/A, Panki Industrial Estate, India ~72: LOHIA, Siddharth~ 33:IN ~31:201911001690 ~32:03/02/2019

2021/05410 ~ Provisional ~54:CREATIVE ~71:Mr Sipho Joseph Matshika, 49 Sonneblom Rd, Bronkhorstspuit, South Africa ~72: Mr Sipho Joseph Matshika~

2021/05369 ~ Provisional ~54:NATURAL FIRE STARTERS ~71:Mariana Bergman, 27 Milkwood drive, South Africa ~72: Mariana Bergman~ 33:ZA ~31:5/025 ~32:28/07/2021

2021/05381 ~ Complete ~54:METHOD FOR CONSTRUCTING AGROBACTERIUM-MEDIATED GENETIC TRANSFORMATION SYSTEM OF BOTRYTIS CINEREA IN GRAPE ~71:Shandong Academy of Grape, No. 1-27, Shanda South Road, Jinan City, Shandong Province, 250100, People's Republic of China ~72: JIANG, Xilong;LI, Tinggang;TANG, Xiaoning;WEI, Yanfeng~ 33:CN ~31:202110799521.8 ~32:15/07/2021

2021/05382 ~ Complete ~54:A FILTER FOR A SMOKING ARTICLE ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: KNIGHT,

Matthew;MORALES, Santiago;MUCALO, Lance;RICHARDSON, John;WALPOLE, Nicholas;WAN, Peter~ 33:GB ~31:1219540.0 ~32:31/10/2012

2021/05384 ~ Complete ~54:A FILTER FOR A SMOKING ARTICLE ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: KNIGHT, Matthew;MORALES, Santiago;MUCALO, Lance;RICHARDSON, John;WALPOLE, Nicholas;WAN, Peter~ 33:GB ~31:1219540.0 ~32:31/10/2012

2021/05392 ~ Complete ~54:INJECTION FLUIDS COMPRISING ALKOXYLATED ALCOHOLS AND THE USE OF SUCH FLUIDS IN OIL RECOVERY PROCESSES ~71:Sasol Chemicals GmbH, Anckelmannsplatz 1, HAMBURG 20537, GERMANY, Germany ~72: BILGILI, Harun;FISCHER, Julian;ROMMERSKIRCHEN, Renke;SOTTMANN, Thomas~ 33:EP ~31:19158014.1 ~32:19/02/2019

2021/05402 ~ Complete ~54:SEED-COLLECTION DEVICE FOR A SEED METER, SYSTEM FOR SEPARATING AND DISPENSING SEEDS AND SYSTEM FOR SYNCHRONIZING SEED-CONVEYING MEANS FOR A SEED METER ~71:ASSY, José Roberto Do Amaral, Av. Coronel Bento de Godoy 340, apto. 900, Brazil ~72: ALVES DE SOUZA, Duceni;ASSY, José Roberto Do Amaral;CHIBA KAWASAKI, Claudio;DA SILVA PEREIRA, Paulo Ricardo~ 33:BR ~31:BR102019001328-1 ~32:23/01/2019

2021/05406 ~ Complete ~54:A METHOD FOR OPERATING AN AGRICULTURAL SPREADER AND ANARRANGEMENT FOR AN AGRICULTURAL SPREADER SYSTEM ~71:KVERNELAND GROUP NIEUW- VENNEP B.V., Hoofdweg 1278, 2153 LR Nieuw-Vennep, Netherlands ~72: BART DE BOER~ 33:EP ~31:20157214.6 ~32:13/02/2020

2021/05365 ~ Provisional ~54:DESICCANT MANUFACTURING ARRANGEMENT ~71:Vortex Innovation Worx (Pty) Ltd, 4 Paddy Close, South Africa ~72: Michael DOLLMAN;Pieter VAN STRYP~

2021/05387 ~ Complete ~54:PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH) RESOURCE MAPPING FOR MULTI-TRANSMISSION POINT (TRP) ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: FAXÉR, Sebastian;FRENNE, Mattias;GAO, Shiwei;JÄRMYR, Simon;MURUGANATHAN, Siva~ 33:US ~31:62/790,736 ~32:10/01/2019

2021/05411 ~ Provisional ~54:MOMO CASHBACK / MOMO VIRTUAL REWARDS ~71:Thabo Sithole, 607 Madikane Street, Pretoria North,, South Africa ~72: Thabo Sithole~

2021/05385 ~ Complete ~54:PROTECTIVE GARMENT ~71:CHARNAUD TECHNOLOGIES (PTY) LTD., 1 Pink Street, Ezakheni Industrial Estate, Ladysmith, Kwazulu Natal, 3381, South Africa ~72: ANDREW JOHN CHARNAUD;FIONA CHARNAUD~ 33:ZA ~31:2020/03882 ~32:26/06/2020

2021/05459 ~ Complete ~54:PREPARATION PROCESS OF NANOMETER DELAY COMPOSITION USED FOR DETONATOR ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CHEN, SHIXIONG;WANG, XUERUI;XIE, JUN;XIE, XINGHUA;ZHOU, HUIHENG~

2021/05367 ~ Provisional ~54:SLURRY TREATMENT APPARATUS ~71:VIETTI SLURRYTEC (PROPRIETARY) LIMITED, 33 Kyalami Boulevard Kyalami Business Park, Kyalami, 1684, South Africa ~72: ANDREW JOSEPH VIETTI~

2021/05383 ~ Complete ~54:A FILTER FOR A SMOKING ARTICLE ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: KNIGHT,

Matthew;MORALES, Santiago;MUCALO, Lance;RICHARDSON, John;WALPOLE, Nicholas;WAN, Peter~ 33:GB
~31:1219540.0 ~32:31/10/2012

2021/05399 ~ Complete ~54:USE OF SPIROPIDION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67,
BASEL 4058, SWITZERLAND, Switzerland ~72: DANIELS, Miriam;JOHNSON, Stephen;SENN, Robert~ 33:EP
~31:19158282.4 ~32:20/02/2019

2021/05379 ~ Complete ~54:AXIS PINHOLE AMERICAN GINSENG PNEUMATIC PRECISION PLANTER
~71:Qingdao Agricultural University, No.700, Changcheng Road, Chengyang, Qingdao, Shandong, People's
Republic of China ~72: Lian Zhengguo;Wang Jiasheng~

2021/05386 ~ Complete ~54:METHOD OF, AND SYSTEM FOR, DESIGNING/CREATING A BENDING
PROCESS PLAN/PROCEDURE ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Building 20, Office 133
Staatsartillery Road, Pretoria, Gauteng, 0002, South Africa ~72: ERIYETI MURENA;KHUMBULANI MPOFU~
33:ZA ~31:2020/01961 ~32:04/05/2020

2021/05393 ~ Complete ~54:MULTIPOTENT ADULT PROGENITOR CELLS FOR USE IN TREATING
INTRACEREBRAL HEMORRHAGE ~71:ABT Holding Company, 3201 Carnegie Avenue, Cleveland 44115-2634,
OH, USA, United States of America ~72: MAYS, Robert~ 33:US ~31:16/265,373 ~32:01/02/2019

2021/05407 ~ Complete ~54:LOW-CONSUMPTION HUB AND DETECTOR CONFIGURED TO COMMUNICATE
WITH THIS HUB ~71:ENGIE, 1, Place Samuel De Champlain, 92400, Courbevoie, France ~72:
ANGÉLIQUE D'AGOSTINO;FABIAN RUPIN;JULIEN WERLY~ 33:FR ~31:1901119 ~32:05/02/2019

2021/05366 ~ Provisional ~54:MULTISTAGE SOLAR DESALINATION SYSTEM ~71:CAPE PENINSULA
UNIVERSITY OF TECHNOLOGY, Symphony Way (off Modderdam Road) Bellville, Cape Town, 7530, South
Africa ~72: MBONGISENI MPANDENHLE MKHIZE;VELAPHI SMOMI~

2021/05372 ~ Complete ~54:DESICCANT MANUFACTURING ARRANGEMENT ~71:Vortex Innovation Worx
(Pty) Ltd, 4 Paddy Close, South Africa ~72: Michael DOLLMAN;Pieter VAN STRYP~

2021/05400 ~ Complete ~54:HERBICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse
67, BASEL 4058, SWITZERLAND, Switzerland ~72: ARMSTRONG, Sarah;FELLMANN, Julia;HALL, Gavin
John;KANDUKURI, Sandeep Reddy;MCGRANAGHAN, Andrea;MOORHOUSE,SIAN JANET;NG, Sean;PHADTE,
Mangala;SCUTT, James Nicholas;SONAWANE, Ravindra;THOMSON, Niall Rae;WILLETTS , Nigel
James;WUERFFEL, Raymond Joseph~ 33:IN ~31:201911006086 ~32:15/02/2019

2021/05397 ~ Complete ~54:DEFLATION SAFETY SYSTEM AND SYSTEM INCLUDING SAME ~71:Hutchinson
Industries, Inc., 460 Southard Street, TRENTON 08638, NJ, USA, United States of America ~72: HARTMAN,
Michael G.;HOBE, Peter K.;NOBLANC, Olivier;RENSON, Christopher R.;RESARE, Lars Johan;STUCK, Larry
W.~ 33:US ~31:62/795,834 ~32:23/01/2019

2021/05370 ~ Provisional ~54:JOSHUA DUAL FUNCTION HEADPHONE ~71:IJERE JOSHUA IZUCHUKWU,
NO155 OLD ONITSHA ROAD, Nigeria ~72: IJERE JOSHUA IZUCHUKWU~

2021/05375 ~ Complete ~54:MODIFICATION TECHNOLOGY OF HIGHLAND BARLEY BRAN AND ITS
APPLICATION ~71:Qinghai Academy of Agricultural and Forestry Sciences, No.253 Ningzhang Road, Chengbei
District, Xining City, Qinghai, 810006, People's Republic of China;Qinghai Dayao Ecological Agriculture Science
and Technology Development Co., Ltd., No.36 Huancheng West Road, Delingha City, Haixi Prefecture, Qinghai,
817000, People's Republic of China ~72: Bin Dang;Jianbo Li;Jie Zhai;Jie Zhang;Mengmeng Zhao;Shengzhi
Gan;Wengang Zhang;Xijuan Yang~

2021/05378 ~ Complete ~54:METHOD FOR PRODUCING CHEMICALS FROM CRUDE OIL BY DOUBLE-TUBE PARALLEL MULTI-ZONE CATALYTIC CONVERSION ~71:China University of Petroleum (East China), No. 66, West Changjiang Road, Huangdao District, Qingdao, Shandong, People's Republic of China ~72: Chen Yaozheng;Gao Chunxiao;Liu Jiming;Shan Honghong;Su Tong;Sun Haoyang;Tian Yuanyu;Yang Chaohe;Zhang Jinhong~

2021/05389 ~ Complete ~54:EFFICIENT SPATIALLY-HETEROGENEOUS AUDIO ELEMENTS FOR VIRTUAL REALITY ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: DE BRUIJN, Werner;FALK, Tommy;JANSSON TOFTGÅRD, Tomas;KARLSSON, Erlendur;ZHANG, Mengqiu~ 33:US ~31:62/789,617 ~32:08/01/2019

2021/05403 ~ Complete ~54:PARAMETER DERIVATION FOR INTRA PREDICTION ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., ROOM B-0035 2/F NO.3 BUILDING NO.30 SHIXING ROAD SHIJINGSHAN DISTRICT, BEIJING, 100041, People's Republic of China;BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2019/075993 ~32:24/02/2019;33:CN ~31:PCT/CN2019/076195 ~32:26/02/2019;33:CN ~31:PCT/CN2019/079396 ~32:24/03/2019;33:CN ~31:PCT/CN2019/079431 ~32:25/03/2019;33:CN ~31:PCT/CN2019/079769 ~32:26/03/2019

2021/05412 ~ Complete ~54:ORODISPERSIBLE TABLET ~71:RECKITT BENCKISER HEALTH LIMITED, 103-105 Bath Road, Slough, United Kingdom ~72: BARNETT, Steven, Louis;GORDON, Calum, McIntosh;HANNING, Jennifer, Esme;KLÔH, Tracy Emmanuelle~ 33:GB ~31:1901137.8 ~32:28/01/2019

2021/05394 ~ Complete ~54:ANTIBODIES AGAINST IL-7R ALPHA SUBUNIT AND USES THEREOF ~71:Bristol-Myers Squibb Company, Route 206 & Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: BRODEUR, Scott Ronald;CARL, Stephen Michael;CHEN, Guodong;DEYANOVA, Ekaterina;HUANG, Richard Yu-Cheng;LANGISH, Alfred Robert;PASHINE, Achal Mukundrao;SHEN, Hong;SU, Lin Hui;WANG, Yun;YAMNIUK, Aaron Paul~ 33:US ~31:62/795,378 ~32:22/01/2019;33:US ~31:62/868,791 ~32:28/06/2019

2021/05409 ~ Complete ~54:THERMOPLASTIC GEL WITH LOW OIL BLEED OUT ~71:COMMSCOPE TECHNOLOGIES LLC, 1100 CommScope Place SE, Hickory, North Carolina, 28602, United States of America ~72: CHRISTIAAN RADELET;GARY WILLIAM ADAMS;MARIE-CHRISTINE ALMA PAULINE LUCIEN DELA RUELE~ 33:US ~31:62/804,289 ~32:12/02/2019

2021/05371 ~ Complete ~54:DISHWASHER WATER FILTER SYSTEM AND DISHWASHER WASHING PROGRAM ~71:Qingdao University of Science and Technology, No. 99 Songling Road, Laoshan District, Qingdao, Shandong, People's Republic of China ~72: Cao Wei;Lv Jian;Wei Qingli;Zhang Yubing~

2021/05380 ~ Complete ~54:METHOD FOR PROPPANT FOR WATER-BASED FRACTURING FLUIDS ~71:Liaoning Petrochemical University, No.1, West Section of Dandong Road, Wanghua District, Fushun, Liaoning, 113001, People's Republic of China ~72: Ma Cheng~

2021/05395 ~ Complete ~54:BICYCLIC SULFONAMIDES ~71:Aligos Therapeutics, Inc., 1 Corporate Drive, 2nd Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BEIGELMAN, Leonid;SMITH, David Bernard~ 33:US ~31:62/805,725 ~32:14/02/2019

2021/05398 ~ Complete ~54:IMPROVED CONSISTENCY OF CROP YIELD THROUGH BIOLOGICAL NITROGEN FIXATION ~71:Pivot Bio, Inc., 2910 Seventh Street, BERKELEY 94710, CA, USA, United States of

America ~72: REISINGER, Mark; SANDERS, Ernest; TEMME, Karsten~ 33:US ~31:62/801,504
~32:05/02/2019; 33:US ~31:62/960,633 ~32:13/01/2020

2021/05408 ~ Complete ~54: MEASUREMENT DEVICE, IN PARTICULAR FOR DETECTING HYDROGEN IN THE SOIL OF A REGION ~71: ENGIE, 1, Place Samuel De Champlain, 92400, Courbevoie, France ~72: ANGÉLIQUE D'AGOSTINO; JULIEN WERLY; LOUIS GORINTIN~ 33:FR ~31:1901121
~32:05/02/2019

2021/05374 ~ Complete ~54: A METHOD FOR ECOLOGICAL ENVIRONMENT-FRIENDLY CIRCULATING BEEF CATTLE BREEDING ~71: Xianchao Liao, Group 19 Dongshan Village, Baimadu Town, Daoxian, YongZhou, Hunan, People's Republic of China ~72: Xianchao Liao~

2021/05376 ~ Complete ~54: MULTIFUNCTIONAL RIDGING MACHINE ~71: QINGDAO AGRICULTURAL UNIVERSITY, No.700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province 266000, Qingdao, 266000, People's Republic of China ~72: CHEN, Mingdong; SHANG, Shuqi~ 33:CN
~31:202010826521.8 ~32:17/08/2020

2021/05391 ~ Complete ~54: ROTARY FERMENTATION APPARATUS FOR FRUIT AND VEGETABLE FERMENTATION ~71: INSTITUTE OF AGRO-PRODUCTS PROCESSING SCIENCE AND TECHNOLOGY, SHANXI ACADEMY OF AGRICULTURAL SCIENCES, No.79 Longcheng Street, Xiaodian District, Taiyuan, Shanxi, 030031, People's Republic of China ~72: HAN, Jiming; JIN, Yang; WU, Jianli; YANG, Chun; YE, Zheng; ZHANG, Jiangning~ 33:CN ~31:202110636639.9 ~32:08/06/2021

2021/05405 ~ Complete ~54: COSMETIC/DERMATOLOGICAL COMPOSITION ~71: DENIS BARRITAU, 4 rue Française 75001 Paris, France; ORGANES TISSUS REGENERATION REPARATION REMPLACEMENT, 4 rue Française 75001 Paris, France ~72: DENIS BARRITAU~ 33:EP ~31:19305095.2 ~32:24/01/2019

2021/05373 ~ Complete ~54: A VENDING KIOSK AND A VENDING SYSTEM ~71: SPACE PLUS (PTY) LTD, 20 Douglas Crowe Drive, The Edge, South Africa ~72: TOWEEL, Matthew Joseph~ 33:ZA ~31:2020/05764
~32:17/09/2020

2021/05377 ~ Complete ~54: AIR POLLUTION RISK EARLY WARNING METHOD AND SYSTEM ~71: Xi'an University of Architecture and Technology, No. 13 middle section of Yanta Road, Beilin District, Xi'an, Shaanxi, People's Republic of China ~72: Cao Yan; Du Hongxia; Li Yexin; Liu Quan; Liu Yanzheng; Zhu Ying~

2021/05390 ~ Complete ~54: NEW FORMULATION FOR A LOW-CARBON CONSTRUCTION BINDER, METHOD OF PRODUCTION, AND CONSTRUCTION MATERIALS ~71: MATERR'UP, 50 Allee Ceres Technopole Domolandes Parc Atlantisud, 40230, Saint-Geours-de-Maremne, France ~72: NEUVILLE, Mathieu~ 33:EP ~31:18306902.0 ~32:31/12/2018; 33:FR ~31:1901300 ~32:08/02/2019

2021/05404 ~ Complete ~54: INTERACTIONS BETWEEN IN-LOOP RESHAPING AND INTER CODING TOOLS ~71: BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., ROOM B-0035 2/F NO.3 BUILDING NO.30 SHIXING ROAD SHIJINGSHAN DISTRICT, BEIJING, 100041, People's Republic of China; BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU; JIZHENG XU; KAI ZHANG; LI ZHANG; YUE WANG~ 33:CN
~31:PCT/CN2019/074437 ~32:01/02/2019

- APPLIED ON 2021/07/30 -

2021/05413 ~ Provisional ~54: CATBOOK ~71: Cover My Books (Pty) Ltd, 3 La Prive Country Estate, 9th Rd, Bredell., South Africa ~72: Cover My Books (Pty) Ltd~

2021/05415 ~ Provisional ~54:PRESSURE LEVER LOCK ~71:ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD, 46 Eden Park Drive, Mkondeni, South Africa ~72: DREYER, Marius;HALSTEAD, Trevor;VOSS, Michael~

2021/05419 ~ Complete ~54:A METHOD AND DEVICE FOR REALIZING HUMAN-COMPUTER INTERACTION BASED ON CAMERA ~71:Zhengzhou Shengda University of Economics, Business and Management, ZSDU, No.1 Wenchang Road, Longhu Town, Xinzheng City, Zhengzhou, Henan, People's Republic of China ~72: Feng Yingchao;Li Xin;Liu Xiaodong;Zhang Hui;Zhou Xiangzhen~

2021/05424 ~ Complete ~54:A METHOD OF PRODUCING A HIGH PROTEIN PRODUCT ~71:GRANT ANDRE GREYLING, 13 Langer, Silver Lakes Golf Estate, Pretoria, South Africa ~72: GRANT ANDRE GREYLING~ 33:ZA ~31:2020/05881 ~32:23/09/2020

2021/05445 ~ Provisional ~54:TRANSACTION SYSTEM AND METHOD ~71:CHADAZ TRUST, 13 BALI ON LEITH, 82 LEITH ROAD, South Africa ~72: JOHANNES PETRUS VENTER~

2021/05438 ~ Complete ~54:INTERNAL CYCLIC SULPHIAMIDINE AMIDE-ARYL AMIDE COMPOUND AND USE THEREOF FOR TREATING HEPATITIS B ~71:Shanghai Longwood Biopharmaceuticals Co., Ltd., Rm 7401-7402, 3F & 4F., Building 7, 4289 Jindu Road, Minhang District, SHANGHAI 201108, CHINA (P.R.C.), People's Republic of China ~72: WANG, Zhe;ZENG, Zhihong;ZHANG, Lei~ 33:CN ~31:201910027573.6 ~32:11/01/2019

2021/05442 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING SLEEP APNEA ~71:THE BRIGHAM AND WOMEN'S HOSPITAL, INC., 75 Francis Street Boston, United States of America ~72: MONTEMURRO, Luigi Taranto;WELLMAN, D. Andrew~ 33:US ~31:62/803,223 ~32:08/02/2019

2021/05440 ~ Complete ~54:A METHOD FOR SEPARATING OLEFIN OLIGOMERIZATION PRODUCTS (VARIANTS) ~71:PUBLIC JOINT STOCK COMPANY "SIBUR HOLDING", Eastern Industrial Area, building 30, Block 1, N 6, g. Tobolsk, Russian Federation ~72: ARKATOV, Oleg Leonidovich;KHUSAINOV, Airat Faritovich;LIPSIKH, Maxim Vladimirovich;POPOV, Evgeniy Anatolievich~

2021/05418 ~ Complete ~54:SPHERICAL PHOSPHOGYPSUM, AND PREPARATION METHOD AND USE THEREOF ~71:Hubei Xinyangfeng New Building Material Technology Co., Ltd., No. 7 attached to Yuelianghu Road, Duodao District, Jingmen City, Hubei Province, 448000, People's Republic of China ~72: SUN, Xiaopei~ 33:CN ~31:202110446425.5 ~32:25/04/2021

2021/05426 ~ Complete ~54:TERMINAL ASSEMBLY FOR AN ELECTRIC VEHICLE CHARGER, CHARGER AND METHOD OF MANUFACTURING OF BOTH ~71:EASEE AS, GRENSEVEIEN 19, 4313 SANDNES, NORWAY, Norway ~72: HELMIKSTAD, Jonas;MØLLGAARD, Steffen;SØRE, Kjetil;STENGEL, Ola~ 33:NO ~31:20190213 ~32:15/02/2019

2021/05436 ~ Complete ~54:HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DIXON, Eric Robert;FORD, Steven M.;FOREMAN, Rachel Liat David;FRESCHAUF, Lauren R.;GOHRES, Rachel Ann;KEPLINGER, Stefan Florian;OBERWISE, Eric Michael;OKOS, Chris J.;POPP, Michael J.~ 33:US ~31:62/805,847 ~32:14/02/2019;33:US ~31:62/944,325 ~32:05/12/2019

2021/05433 ~ Complete ~54:USE OF HETEROPHYLLIN B IN IMPROVING MEMORY AND/OR PREVENTING AND TREATING ALZHEIMER'S DISEASE ~71:Guangdong Ocean University, No.1 Haida Road, Mazhang District, ZHANJIANG 524088, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: HU,

Xueqiong;LIU, Baiping;YANG, Longen;YANG, Zhiyou;ZHANG, Cai~ 33:CN ~31:201910693077.4
~32:30/07/2019

2021/05435 ~ Complete ~54:COFFEE GRINDING MACHINE WITH IMPROVED DOSING SYSTEM AND ASSOCIATED METHOD ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA (FI) 50038, ITALY, Italy ~72: DIONISIO, Andrea~ 33:IT ~31:102019000001623 ~32:05/02/2019

2021/05443 ~ Complete ~54:SPIRAL CHUTE FOR MINERAL PROCESSING ~71:LI, Chunou, Room 2602, No. 3, Huacheng Avenue, People's Republic of China ~72: LI, Chunou~ 33:CN ~31:201910023315.0 ~32:10/01/2019

2021/05441 ~ Complete ~54:A METHOD OF REPLACING SODIUM LOSSES IN A PULP MILL, A METHOD OF PRODUCING BLEACHED CELLULOSIC PULP, AND A SYSTEM ~71:ANDRITZ OY, Tammasaarenkatu 1, 00180 Helsinki, Finland;METSÄ FIBRE OY, P.O. Box 30, 02020 Metsä, Finland ~72: ARI POUKKA;VELI-PEKKA TERVOLA~ 33:FI ~31:20195108 ~32:13/02/2019

2021/05430 ~ Complete ~54:PROCESS FOR AN INSTANT OIL FRIED NOODLE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BAPNA, Preksha;BERTOLI, Constantin;DREYER, Michel;FEDERICO, Joan;MARAZZATO, Michele~ 33:IN ~31:201911001401 ~32:11/01/2019;33:EP ~31:19157622.2 ~32:18/02/2019

2021/05528 ~ Provisional ~54:THE BOOKMARK ~71:Tumelo Peter Tshabalala, 860 ZONE 1, MASELOONE STREET, South Africa ~72: Tumelo Peter Tshabalala~

2021/05423 ~ Complete ~54:METHODS AND MICROORGANISMS FOR MAKING 2,3-BUTANEDIOL AND DERIVATIVES THEREOF FROM C1 CARBONS ~71:INTREXON CORPORATION, 1750 Kraft Drive Suite 1400, Blacksburg, Virginia, 24060, United States of America ~72: BRYAN YE;JAMES KEALEY;KEVIN LEE DIETZEL;LILY YUIN CHAO;MARK ANTON HELD;MATTHIAS HELMUT SCHAMLISCH;NA TRINH;TINA HUYNH;XINHUA ZHAO~ 33:US ~31:62/451,819 ~32:30/01/2017;33:US ~31:62/504,626 ~32:11/05/2017;33:US ~31:62/512,312 ~32:30/05/2017;33:US ~31:62/588,985 ~32:21/11/2017

2021/05432 ~ Complete ~54:PROCESS FOR PREPARATION OF COPPER COMPOUNDS ~71:UPL LTD, Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA, India ~72: CAVASSE, Philippe;FERRIER, Frederic;PILLOT, Marc~ 33:FR ~31:19/01654 ~32:19/02/2019

2021/05414 ~ Provisional ~54:CATBOOK ~71:Cover My Books (Pty) Ltd, 3 La Prive Country Estate, 9th Rd, Bredell., South Africa ~72: Cover My Books (Pty) Ltd~

2021/05439 ~ Complete ~54:SYSTEMS AND METHODS FOR PRODUCING DURABLE, DIMENSIONALLY STABLE, EXTRUDED SHEET GOODS HAVING A DESIRED SPECIFIC GRAVITY ~71:GOLCONDA HOLDINGS, LLC, 9028 Ladner St., United States of America ~72: LEBLANC, Shane S.~ 33:US ~31:62/787,085 ~32:31/12/2018;33:US ~31:16/732,174 ~32:31/12/2019

2021/05420 ~ Complete ~54:BIG DATA IMPLEMENTATION SYSTEM AND METHOD BASED ON NETWORK SECURITY ~71:Zhengzhou Shengda University of Economics, Business and Management, ZSDU, No.1 Wenchang Road, Longhu Town, Xinzheng City, Zhengzhou, Henan, People's Republic of China ~72: Hu Guangxin;Li Xin;Ren Gang;Zhang Hong;Zhou Feifei;Zhou Xiangzhen~

2021/05422 ~ Complete ~54:LIP CHANNEL BEAM SURFACE CONTACTOR ~71:HENDRIK JOHANNES VENTER, Piet My Vrou Street 82, Monument Park, South Africa ~72: HENDRIK JOHANNES VENTER~ 33:ZA ~31:2020/01933 ~32:04/05/2020

2021/05425 ~ Complete ~54:A NOVEL COMPOUND DERIVED FROM ALLULOSE ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: BYUN, Sung Bae;CHOI, Eun Jung;CHOI, Jong Min;KANG, In Sung;KIM, Min Hoe;KIM, Seong Bo;KIM, Taek Beom;LEE, Young Mi~ 33:KR ~31:10-2019-0032093 ~32:21/03/2019

2021/05427 ~ Complete ~54:SUSTAINED LOCAL DRUG LEVELS FOR INNATE IMMUNE AGONISTS ~71:ASCENDIS PHARMA ONCOLOGY DIVISION A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: BISEK, Nicola;HOLTEN-ANDERSEN, Lars;LESSMANN, Torben;PUNNONEN, Juha;ROSEN, David, B.;SPROGØE, Kennett;STARK, Sebastian;VOIGT, Tobias;WEISBROD, Samuel;YANG-MALTEN, Yang;ZUNIGA, Luis~ 33:EP ~31:19150388.7 ~32:04/01/2019;33:EP ~31:19181823.6 ~32:21/06/2019;33:EP ~31:19206471.5 ~32:31/10/2019

2021/05431 ~ Complete ~54:METHOD AND SYSTEM FOR RE-REFINING AND UPGRADING USED OIL ~71:ReGen III Corp., Suite 1750, 400 Burrard Street, VANCOUVER V6C 3A6 , BC, CANADA, Canada ~72: DRIEDGER, Gordon;MOORE, Zachary~ 33:EP ~31:19155542.4 ~32:05/02/2019

2021/05434 ~ Complete ~54:USE OF ONCOLYTIC VIRUSES FOR THE TREATMENT OF CANCER ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: COOKE, Keegan;DEVOSS, Jason James;MEISEN, Walter Hans;MOESTA, Achim Klaus;TINBERG, Christine Elaine~ 33:US ~31:62/813,961 ~32:05/03/2019

2021/05428 ~ Complete ~54:MOBILE DEVICE FOR HEATING A RAIL OF A PERMANENT WAY USING INFRARED-RADIATION ELECTRIC LAMPS, AND ASSOCIATED HEATING METHOD ~71:MATISA MATERIEL INDUSTRIEL SA, Boulevard de l'Arc en Ciel 25, Case Postale, 1023, Crissier, Switzerland ~72: SAVOYAT, Marc-Antoine~ 33:FR ~31:1901736 ~32:21/02/2019

2021/05437 ~ Complete ~54:COFFEE GRINDING MACHINE CONFIGURED TO PROVIDE DIFFERENT PARTICLE SIZE PROFILES AND ASSOCIATED METHOD ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA (FI) 50038, ITALY, Italy ~72: DIONISIO, Andrea~ 33:IT ~31:102019000001629 ~32:05/02/2019

2021/05421 ~ Complete ~54:SYSTEM AND METHOD FOR ESTABLISHING VEHICLE DISTRIBUTED POWER ARRANGEMENT ~71:Westinghouse Air Brake Technologies Corporation, 30 Isabella St., PITTSBURGH 15212, PA, USA, United States of America ~72: GUPTA, Jitendra~ 33:US ~31:63/059,509 ~32:31/07/2020;33:US ~31:17/379,452 ~32:19/07/2021

2021/05444 ~ Complete ~54:SYSTEMS, APPARATUS AND METHODS FOR INTER PREDICTION REFINEMENT WITH OPTICAL FLOW ~71:VID SCALE, INC., 200 Bellevue Parkway Suite 300 Wilmington, United States of America ~72: HE, Yuwen;LUO, Jiancong~ 33:US ~31:62/802,428 ~32:07/02/2019;33:US ~31:62/814,611 ~32:06/03/2019;33:US ~31:62/833,999 ~32:15/04/2019

2021/05429 ~ Complete ~54:PRINTED COVERSIP AND SLIDE FOR IDENTIFYING REFERENCE FOCAL PLANE FOR LIGHT MICROSCOPY ~71:TECHCYTE, INC., 105 South State Street, #401, United States of America ~72: CAHOON, Benjamin;LARSON, Benjamin, S.;SWENSON, Shane~ 33:US ~31:62/794,487 ~32:18/01/2019;33:US ~31:62/810,850 ~32:26/02/2019

2021/05416 ~ Provisional ~54:SELF CERTIFYING MACHINE(E-CERTIFY) ~71:Pule Maake, 939 Polaris Street, South Africa;Thabang Mamantsebe, 939 Polaris Street, South Africa ~72: Pule Maake;Thabang Mamantsebe~ 33:ZA ~31:0837783969 ~32:29/07/2021

2021/05417 ~ Complete ~54:TWO-STAGE VACUUM-PUMPING EXPLOSION PROCESSING PLATFORM IN A SPHERICAL TANK ~71:Anhui University of Science and Technology, No. 168, Taifeng Avenue, Huainan, Anhui,

People's Republic of China ~72: Cheng Yangfan;Huang Wen Yao;Li Rui;Li Xiaochen;Li Xuejiao;Li Zhimin;Wang Fengqi;Wang Quan;Yang Li'ao~

- APPLIED ON 2021/08/02 -

2021/05446 ~ Provisional ~54:TEETH WASH ~71:Jacques Theron, 15 Louise Place, Browns Bay , Auckland, New Zealand ~72: Eduard Johannes Jacques Theron~

2021/05457 ~ Provisional ~54:SELF CLEANING DRAIN SUMP ~71:TITAN MINING (PTY) LTD, Plot 67, Vlakplaas 20, Tarlton, KRUGERSDORP 1739, Gauteng, SOUTH AFRICA, South Africa ~72: WHYTE, Shane Rodger~

2021/05462 ~ Complete ~54:TRANSPLATING AND DIGGING DEVICE FOR TOBACCO SEEDLINGS UNDER FILM ~71:Henan Agricultural University, No. 95 Wenhua Road, Jinshui District, Zhengzhou City, Henan Province, 450002, People's Republic of China ~72: Bo Wang;Feiyang Chui;Guoshun Liu;Ke Zhang;Pan Ding;Tianbao Ren;Zequan Huang~ 33:CN ~31:CN202110638135.0 ~32:08/06/2021

2021/05472 ~ Complete ~54:AN AUXILIARY FOR REALIZING ROBOT WRITING ~71:Nanchang University, No. 999, Xuefu Ave., Honggutan New Dist., Nanchang, Jiangxi, People's Republic of China ~72: Yitian Lu~

2021/05474 ~ Complete ~54:PAPER MANAGING SYSTEM AND RELATED WORKFLOW ~71:NASACO SOUTHERN AFRICA (PTY) LTD, 79 Bellairs Drive, GLENVISTA, Johannesburg 2091, Gauteng, SOUTH AFRICA, South Africa ~72: CHIDLEY, Francis John~ 33:ZA ~31:2020/04812 ~32:04/08/2020

2021/05451 ~ Provisional ~54:PRODUCT AND METHOD FOR AMELIORATING THE EFFECTS OF VEISALGIA ~71:LUNADYNE (PTY) LTD, 14 Jackson Street, Factoria, South Africa ~72: PRATLEY, Andrew George Alan;PRATLEY; Kimleigh George Montague;PRINSLOO, Riza-Mariè~

2021/05465 ~ Complete ~54:A METHOD FOR PREPARING MUD FOR MINE VEGETATION RESTORATION PROJECT ~71:China Building Materials Industrial Construction Xi'an Engineer Co., Ltd., Room 10201, Unit 1, Building 1, New Chang'an Plaza, No.34 Fenghui South Road, High-tech Zone, Xi'an, Shaanxi, 710000, People's Republic of China ~72: Han Bo;Ma Chunfeng;Wang Chao;Yang Daizhong;Yu Fanghai;Zeng Wenqiu;Zhang Chunping;Zhang Yawen~

2021/05454 ~ Provisional ~54:BOGIE ~71:DUNCAN, Malcolm Douglas, 1344 Spyker Crescent, Stormill, Ext 2, South Africa ~72: DUNCAN, Malcolm Douglas~

2021/05456 ~ Provisional ~54:ALCOHOLIC BEVERAGE INVENTORY MANAGEMENT METHOD AND SYSTEM ~71:Cellar2Cellar (Pty) Ltd., 109A Main Road, South Africa ~72: DU TOIT, Anton;FOURIE, Sonja~

2021/05460 ~ Complete ~54:HEATING DEVICE ~71:TURNKEY COMMERCE (PTY) LTD, UNIT 20, FOUNDRY PARK, 18 TOTTUM RD, South Africa ~72: JANSEN VAN VUUREN, Cedric Jacobus~

2021/05469 ~ Complete ~54:PREPARATION METHOD OF COMPOUND MICROECOLOGICAL PREPARATION FOR FUR ANIMALS ~71:Qingdao Agricultural University, No.700, Chang-cheng-lu, Chenyang, Qingdao, Shandong, People's Republic of China ~72: Ren Jianwei;Wen Jianxin~

2021/05471 ~ Complete ~54:PRIMERS, REAGENTS, KITS FOR IDENTIFYING RETINOPATHY OF PREMATUREITY WITH/WITHOUT MENTAL RETARDATION AND APPLICATION THEREOF ~71:West China Hospital, Sichuan University, No.37 Guoxue Road,Wuhou District, Chengdu City, People's Republic of China ~72: TAO, Zhiyan~

2021/05482 ~ Complete ~54:COMBINED SMELTING OF MOLTEN SLAGS AND RESIDUALS FROM STAINLESS STEEL AND FERROCHROMIUM WORKS ~71:OUTOKUMPU OYJ, Salmisaarenrata 11, Finland ~72: PARVIAINEN, Timo;VALLO, Kimmo~ 33:FI ~31:20195153 ~32:01/03/2019

2021/05478 ~ Complete ~54:COMPOSITIONS FOR REPLACING CHEMICAL SURFACTANTS ~71:LOCUS IP COMPANY, LLC, 30600 Aurora Road, Suite 180, United States of America ~72: ALIBEK, Ken;FARMER, Sean;KRAVTSOV, Sergey~ 33:US ~31:62/987,529 ~32:10/03/2020

2021/05488 ~ Complete ~54:HERBICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: ARMSTRONG, Sarah;FELLMANN, Julia;HALL, Gavin John;KANDUKURI, Sandeep Reddy;MCGRANAGHAN, Andrea;MOORHOUSE SIAN JANET;NG, Sean;PHADTE, Mangala;SCUTT, James Nicholas;SONAWANE, Ravindra;THOMSON, Niall Rae;WILLETTS , Nigel James;WUERFFEL, Raymond Joseph~ 33:IN ~31:201911006082 ~32:15/02/2019

2021/05490 ~ Complete ~54:FULLY MECHANIZED MINING WORKING FACE MINE WATER RESOURCE UTILIZATION SYSTEM AND USE METHOD THEREOF ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1 Daxue Road, Tongshan District, People's Republic of China;HENAN ENERGY AND CHEMICAL INDUSTRY GROUP CO.,LTD., No. 6 Business Waihuan Road,Zhengdong New District, People's Republic of China;XINJIANG INSTITUTE OF ENGINEERING, No. 1350 Kechuang Road, Toutunhe District, People's Republic of China;YANSHAN UNIVERSITY, No. 438 West Hebei Avenue, Haigang District, People's Republic of China ~72: CHANG, Zhiguo;GAO, Huadong;GUO, Yachao;HUANG, Yanli;LEI, Yongchao;LI, Junmeng;LI, Yingshun;LV, Fengyuan;MA, Kun;OUYANG, Shenyang;QI, Wenyue;WU, Laiwei;YANG, Changde;ZHAI, Wen;ZHANG, Weiguang~ 33:CN ~31:201910103645.0 ~32:01/02/2019

2021/05480 ~ Complete ~54:HETERODIMERIC PROTEINS FOR MODULATING GAMMA DELTA T CELLS ~71:SHATTUCK LABS, INC., 1018 WEST 11TH STREET, AUSTIN, TX 78703, USA, United States of America ~72: DE SILVA, Suresh;FROMM, George;SCHREIBER, Taylor~ 33:US ~31:62/789,344 ~32:07/01/2019;33:US ~31:62/876,346 ~32:19/07/2019;33:US ~31:62/941,176 ~32:27/11/2019

2021/05486 ~ Complete ~54:PRE-HARVEST DESICCATION METHOD ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: SCUTT, James Nicholas;WILLETTS , Nigel James~ 33:GB ~31:1901866.2 ~32:11/02/2019

2021/05463 ~ Complete ~54:TRANSPLANTING AND SOIL COVERING DEVICE FOR TOBACCO SEEDLINGS UNDER FILM ~71:Henan Agricultural University, No. 95 Wenhua Road, Jinshui District, Zhengzhou City, Henan Province, 450002, People's Republic of China ~72: Ke Zhang;Long Shao;Pan Ding;Pengfei Li;Tianbao Ren;Xiaochan Liu;Xiaojuan Liu;Yatao Xiao;Yong Chen;Zequan Huang~ 33:CN ~31:CN202110637371.0 ~32:08/06/2021

2021/05481 ~ Complete ~54:A HIGH EFFICIENCY POWER GENERATION SYSTEM AND A METHOD OF OPERATING SAME ~71:A&I POWER GROUP INC., 1013 Centre Road Suite 403-B County of New Castle, Wilmington, Delaware, 19805, United States of America ~72: ALEXIS EDUARDO HERRERA;IYAD SAMER BAGHDANE~ 33:US ~31:62/787,975 ~32:03/01/2019;33:US ~31:16/689,827 ~32:20/11/2019

2021/05452 ~ Provisional ~54:PHOTONICS PLATFORM ~71:Iraka Biotech (Pty) LTD, 456 North Fork, Frikkie Meyer Blvd, South Africa ~72: Dr Cornelius Ssemakalu;mark johnson~

2021/05466 ~ Complete ~54:A DEVICE FOR PREPARING MUD FOR MINE VEGETATION RESTORATION PROJECT ~71:China Building Materials Industrial Construction Xi'an Engineer Co., Ltd., Room 10201, Unit 1, Building 1, New Chang'an Plaza, No.34 Fenghui South Road, High-tech Zone, Xi'an, Shaanxi,

710000, People's Republic of China ~72: Han Bo;Ma Chunfeng;Wang Chao;Yang Daizhong;Yu Fanghai;Zeng Wenqiu;Zhang Chunping;Zhang Yawen~

2021/05479 ~ Complete ~54:METHODS OF TREATING OCULAR CANCER USING ANTI-MET ANTIBODIES AND BISPECIFIC ANTIGEN BINDING MOLECULES THAT BIND MET ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: SCHWARTZ, Gary;SURRIGA, Oliver~ 33:US ~31:62/808,839 ~32:21/02/2019;33:US ~31:62/823,788 ~32:26/03/2019

2021/05491 ~ Complete ~54:METHOD OF DETERMINING THE ORIGIN OF NUCLEIC ACIDS IN A MIXED SAMPLE ~71:NIPD GENETICS PUBLIC COMPANY LIMITED, Neas Engomis 31, Cyprus ~72: ACHILLEOS, Achilleas;IOANNIDES, Marios;KOUMBARIS, George;PATSAIS, Philippos~ 33:EP ~31:19156966.4 ~32:13/02/2019

2021/05458 ~ Provisional ~54:SELF CLEANING WATER AND MUD RECOVERY SYSTEM ~71:TITAN MINING (PTY) LTD, Plot 67, Vlakplaas 20, Tarlton, KRUGERSDORP 1739, Gauteng, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston~

2021/05473 ~ Complete ~54:A CARD GAME SYSTEM FOR PLAYING A CARD GAME ~71:SUN INTERNATIONAL (IP) LIMITED, 6 Sandown Valley Crescent, SANDTON 2196, Gauteng, SOUTH AFRICA, South Africa ~72: KENNEDY, Robin David~ 33:ZA ~31:2020/06391 ~32:15/10/2020

2021/05484 ~ Complete ~54:METHODS FOR NONINVASIVE PRENATAL TESTING OF FETAL ABNORMALITIES ~71:NIPD GENETICS PUBLIC COMPANY LIMITED, Neas Engomis 31, Cyprus ~72: ACHILLEOS, Achilleas;IOANNIDES, Marios;KOUMBARIS, George;LOIZIDES, Charalambos;PATSAIS, Philippos;TSANGARAS, Kyriakos~ 33:EP ~31:19156991.2 ~32:13/02/2019

2021/05453 ~ Provisional ~54:A SANITARY TOWEL ~71:KEEGAN, Shaan, Bronwyn, 19 PAMELO CRESCENT, WALMER DOWNS, PORT ELIZABETH, EASTERN CAPE, 6070, SOUTH AFRICA, South Africa ~72: KEEGAN, Shaan, Bronwyn~

2021/05467 ~ Complete ~54:COUPLED SIMULATION METHOD OF 2D AND 3D MATHEMATICAL MODELS BASED ON INTERNAL AND EXTERNAL SCHEMAS ~71:Tianjin Research Institute for water transport engineering, Ministry of transport, No. 2618, Xingang 2nd Road, Tanggu Binhai New District, Tianjin, People's Republic of China ~72: Guo Yang;Liu Xiaofei;Wang Chenyang;Wang Jianjun;Yang Yunping;Zhang Hongqian~

2021/05476 ~ Complete ~54:METHOD OF PURIFYING NATURAL WATER AND WASTEWATER ~71:DYCLAR GMBH, Corso San Gottardo, 6830, Chasso, Switzerland ~72: BALAEV, Igor Semenovich~ 33:RU ~31:2019113558 ~32:29/04/2019

2021/05447 ~ Provisional ~54:GLACIER BY SALLIE HEEL FITMENT ~71:MOSALE JACOBETH MALAU, UNIT 8 RIVERSIDE ESTATE 17 MARTHINUS OOSTHUIZEN STREET, South Africa ~72: MOSALE JACOBETH MALAU~

2021/05449 ~ Provisional ~54:A MULTI-FACTOR AUTHENTICATION METHOD AND SYSTEM ~71:VAN DEN BERG, Gerhard Johan, At the Gate, Townhouse 37, 5 Marelu Street, Six Fountains Residential Estate, South Africa ~72: VAN DER MERWE, Alwyn~

2021/05461 ~ Complete ~54:AGRICULTURAL INTERNET OF THINGS (IOT) INFORMATION COLLECTION DEVICE AND EARLY WARNING METHOD THEREOF ~71:Henan Agricultural University, No. 95 Wenhua Road,

Jinshui District, Zhengzhou City, Henan Province, 450002, People's Republic of China ~72: Heng Wang~ 33:CN ~31:CN202110634530.1 ~32:08/06/2021

2021/05468 ~ Complete ~54:PRODUCTION METHOD OF WOODY OIL INDUSTRY BY-PRODUCT-BASED BIOCHAR AND ITS APPLICATION IN SOIL AMELIORATION ~71:Jiangxi Agricultural University, 1101 Zhimin Street, Nanchang, Jiangxi, People's Republic of China ~72: Bai Jian;Guo Wenyan;Wang Baihui;Zhang Ling;Zou Yu~

2021/05483 ~ Complete ~54:METHODS AND COMPOSITIONS FOR DEVELOPING TARGET SPECIFIC EXOSOME AND GROWTH FACTOR PRODUCTS ~71:DIRECT BIOLOGICS LLC, 1529 Barton Springs Road, Suite 32, United States of America ~72: MOSELEY, Timothy Alexander;PETTINE, Kenneth Allen~ 33:US ~31:62/798,908 ~32:30/01/2019

2021/05485 ~ Complete ~54:METHOD FOR CURING HEAVY METALS IN COAL GANGUE BY USING MICROORGANISMS ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CHINA UNIVERSITY OF MINING AND TECHNOLOGY No. 1 Daxue Road, Tongshan District, People's Republic of China;HENAN ENERGY AND CHEMICAL INDUSTRY GROUP CO.,LTD., No. 6 Business Waihuan Road,Zhengdong New District, People's Republic of China;XINJIANG INSTITUTE OF ENGINEERING, No. 1350 Kechuang Road, Toutunhe District, People's Republic of China;YANSHAN UNIVERSITY, No. 438 West Hebei Avenue, Haigang District, People's Republic of China ~72: CHANG, Zhiguo;GAO, Huadong;GUO, Yachao;HUANG, Yanli;LEI, Yongchao;LI, Junmeng;MA, Kun;OUYANG, Shenyang;QI, Wenyue;WU, Laiwei;YANG, Changde;ZHAI, Wen;ZHANG, Weiguang~ 33:CN ~31:201910103661.X ~32:01/02/2019

2021/05487 ~ Complete ~54:1-((2-(2,2,2-TRIFLUOROETHOXY)PYRIDIN-4-YL)METHYL)UREA DERIVATIVES AS KCNQ POTENTIATORS ~71:Eli Lilly and Company, P.O. Box 6288, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: SZEKERES, Helen Jane;WHATTON, Maria Ann;WILLIAMS, Andrew, Caerwyn~ 33:US ~31:62/801,716 ~32:06/02/2019;33:US ~31:62/811,038 ~32:27/02/2019

2021/05448 ~ Provisional ~54:NEAR FIELD COMMUNICATION (NFC) VIRTUAL REALITY HEADSET RECEIVER WITH RECHARGEABLE BATTERY. ~71:Ahmed Waseef Saib, 24 Park avenue, Desainager Tongaat Beach,, South Africa ~72: Ahmed Waseef Saib~

2021/05450 ~ Provisional ~54:A METHOD AND SYSTEM OF AUTHORIZING A PAYMENT TRANSACTION ~71:VAN DEN BERG, Gerhard Johan, At the Gate, Townhouse 37, 5 Marelu Street, Six Fountains Residential Estate, South Africa ~72: VAN DER MERWE, Alwyn~

2021/05464 ~ Complete ~54:A MULTIFUNCTIONAL EMBRYO TRANSFER DEVICE ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China ~72: Wenru Tian;Yanni Feng;Zhongling Jiang~

2021/05475 ~ Complete ~54:A PLANT-BASED FUNCTIONAL POLYESTER FILAMENT AND PREPARATION THEREOF ~71:BESTEE MATERIAL (TSINGTAO) CO., LTD., Room 611 Area B, No. 12 Hong Kong Middle Road, South District Qingdao, People's Republic of China ~72: HUANG, Xiaohua;HUANG, Xiaoqian;LIU, Jie;LIU, Yanming;LIU, Yu;ZHEN, Li~

2021/05477 ~ Complete ~54:SELECTED ARTEMISININ DIMERS FOR THE TREATMENT OF LASHMANIASIS ~71:EISohly, Mahmoud, A., 708 Quiet Valley Cove, Oxford, MS 38655, United States of America;Gul, Waseem, 6205 Charleston Court Drive, Oxford, MS 38655, United States of America ~72: EISohly, Mahmoud, A.;Gul, Waseem~ 33:US ~31:62/810,922 ~32:26/02/2019

2021/05489 ~ Complete ~54:LILRB3-BINDING MOLECULES AND USES THEREFOR ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G-2C4, ONTARIO, CANADA, Canada ~72: BRAY, Mark R.;BROKX, Richard;MASON, Jacqueline M.~ 33:US ~31:62/794,064 ~32:18/01/2019

2021/05455 ~ Provisional ~54:PARTICULATE COMPOSITION AND USE THEREOF ~71:BOJE, Carl Emil, Millenium Park No 17A, Stellenberg Road, South Africa ~72: BOJE, Carl Emil~

2021/05470 ~ Complete ~54:INDOOR HIGH-DENSITY CIRCULATING WATER OVERWINTERING DEVICE AND METHOD FOR URECHIS UNICINCTUS LARVAE ~71:Yantai Institute of China Agricultural University, No. 2006 Binhai Middle Road, High-tech Zone, Yantai, Shandong, People's Republic of China ~72: Han Huanfu;Lin Wenwen;Liu Chun;Liu Feng;Wang Shuqi;Xu Fanshu~

- APPLIED ON 2021/08/03 -

2021/05509 ~ Complete ~54:POSTHUMOUS MANAGEMENT OF DIGITAL OR TANGIBLE ASSETS ~71:Remember Blue (Pty) Ltd., 5 Panther Road, Boskruin, JOHANNESBURG 2017, Gauteng, SOUTH AFRICA, South Africa ~72: CASSIE, Keith Baharath;LUCAS, Wesley Wendell;PECKU, Suven~ 33:ZA ~31:2020/00229 ~32:14/07/2020

2021/05514 ~ Complete ~54:ATTITUDE ANGLE SOLUTION METHOD FOR MOBILE ROBOT ~71:TAIZHOU ZHITONG TECHNOLOGY CO. LTD, ROOM B006, FIRST FLOOR, BUILDING NO.1, SANMEN PRINTING CULTURE AND TECHNOLOGY PIONEER PARK, NO.32 HUANCHENG MIDDLE ROAD, HAIYOU STREET, SANMEN COUNTY, People's Republic of China ~72: KAI ZHENG;LIDA ZHENG;LINA WEI;YINGMI CHEN~ 33:CN ~31:201910542491.5 ~32:21/06/2019

2021/05501 ~ Complete ~54:ZIGBEE-BASED REMOTE ONLINE MONITORING SYSTEM FOR POWER GRID TRANSFORMERS ~71:Guangdong University of Petrochemical Technology, 2nd Guandu Road, Maoming, Guangdong, People's Republic of China;Xi'an University of Technology, No.5, South Jinhua Road, Xi'an, Shaanxi, People's Republic of China ~72: Chen Ru;Hu Shaolin;Lei Gaowei;Wang Shihua;Wen Chenglin;Zhang Qinghua~

2021/05504 ~ Complete ~54:HEAT RECOVERY FRESH AIR DEHUMIDIFIER ~71:Jiaxing University, Lianglin campus, No. 899, guangqiong Road, Nanhu District, Jiaxing, Zhejiang, People's Republic of China ~72: Chen Yiguang;Li Kuishan;Liu Fanhan;Qi Yuli;Zhang Ye;Zhou Xiangjiang~

2021/05508 ~ Complete ~54:AIRFLOW CHANNELING APPARATUS ~71:LATEGAN, ANDRIES WILLEM, 32 Witstinkhout Street, Sonneveld Estate, South Africa ~72: LATEGAN, ANDRIES WILLEM~ 33:ZA ~31:2020/05201 ~32:21/08/2020

2021/05518 ~ Complete ~54:AMMUNITION BODY HOLDING DEVICE COMPRISING AN EXPANDABLE HOLDING ELEMENT ~71:KRAUSS-MAFFEI WEGMANN GMBH & CO. KG, Krauss-Maffei-Str. 1, Germany ~72: CZOK, Matthias;RACZEK, Matthias;SPORK, Roland~ 33:DE ~31:10 2019 106 849.5 ~32:18/03/2019

2021/05519 ~ Complete ~54:CAM ADJUSTMENT MECHANISM FOR VEHICLE SUSPENSION CONTROL ARM MOUNT ~71:MAHINDRA N.A. TECH CENTER, 275 Rex Boulevard, United States of America ~72: BROWN, Matthew T.;MLECZKO, David J.~ 33:US ~31:16/273,611 ~32:12/02/2019

2021/05524 ~ Complete ~54:VECTOR STRING SEARCH INSTRUCTION ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BRADBURY, Jonathan;FIGULI, Razvan Peter;LICHTENAU, Cedric;PAYER, Stefan;SCHWARZ, Eric Mark~ 33:US ~31:16/276,712 ~32:15/02/2019

2021/05525 ~ Complete ~54:SYSTEM AND METHOD FOR DRIVING AN ULTRASONIC DEVICE
~71:ORTHOFIX S.R.L., Via delle Nazioni, 9, Italy ~72: COLOMBO, Pieralbino;DONNICI, Mario;FINEZZO,
Alessandro;VENTURINI, Daniele;ZANDONA', Gianluca~ 33:EP ~31:19158490.3 ~32:21/02/2019

2021/05493 ~ Provisional ~54:SECURI-D-CUBE ~71:Roadque (Pty) Ltd, 378 Derdepoort Road, South Africa ~72:
Francois Coetzee~

2021/05503 ~ Complete ~54:EUCALYPTUS GENETIC TRANSFORMATION METHOD WITH SELECTION
MARKERS ~71:Guangdong University of Petrochemical Technology, No. 139, Guangdu Road, Maoming,
Guangdong, People's Republic of China ~72: Chen Kaizhao;Li Limei;Liang Chuyan;Liu Zhichao;Ouyang
Lejun;Pan Jingyin;Wang Zechen;Wu Yupeng~

2021/05516 ~ Complete ~54:ROTATIONAL MOTOR ~71:VENEMAN, Ricky Harman, 55 Jubilee Road, Australia
~72: VENEMAN, Ricky Harman~ 33:AU ~31:2019900105 ~32:14/01/2019

2021/05523 ~ Complete ~54:INCREASING PROCESSING CAPACITY OF PARTITIONS FOR AN ABNORMAL
EVENT ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of
America ~72: SUTTON, Peter Grimm~ 33:US ~31:16/268,059 ~32:05/02/2019

2021/05527 ~ Complete ~54:IMPROVED HANDSET FOR AN ULTRASONIC DEVICE ~71:ORTHOFIX S.R.L.,
Via delle Nazioni, 9, Italy ~72: DONNICI, Mario;VENTURINI, Daniele~ 33:EP ~31:19158499.4 ~32:21/02/2019

2021/05495 ~ Complete ~54:AN AIR CHUCK ~71:GURTECH (PTY) LTD, Mitchell Farm, Lions River, South
Africa ~72: LUSSO, Cary Donald~ 33:AU ~31:2020267180 ~32:10/11/2020

2021/05515 ~ Complete ~54:COMPOSITION FOR PLANTS' ROOT DEVELOPMENT AND GROWING BAG
COMPRISING IT ~71:PLANT BAG S.L., Avda. de Holanda 9 8C - Parque Empresarial de Alhama, 30840,
Alhama de Murcia, Spain ~72: GREGORIO VELASCO GARCIA~ 33:EP ~31:19382005.7 ~32:04/01/2019

2021/05520 ~ Complete ~54:SOUNDING REFERENCE SIGNAL FOR UPLINK-BASED MULTI-CELL
MEASUREMENT ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang
District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ZARIFI, Keyvan~
33:US ~31:62/788,165 ~32:04/01/2019;33:US ~31:16/731,347 ~32:31/12/2019

2021/05496 ~ Complete ~54:SPORT PRACTICE DEVICE ~71:JANSE VAN RENSBURG, Jedri, assisted by his
father, JANSE VAN RENSBURG, Michris, Mooiuitsig, Bultfontein, South Africa ~72: JANSE VAN RENSBURG,
Michris;JANSE VAN RENSBURG, Jedri~ 33:ZA ~31:2020/02463 ~32:06/05/2020

2021/05510 ~ Complete ~54:HAND WASHING STATION ~71:JAFF, Nicholas Robert, 77 South Avenue,
ATHOLL, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: MURRAY, Jared~ 33:ZA
~31:2020/04395 ~32:17/07/2020

2021/05517 ~ Complete ~54:PROPELLANT PORTIONING DEVICE COMPRISING AN EXPANDABLE HOLDING
ELEMENT ~71:KRAUSS-MAFFEI WEGMANN GMBH & CO. KG, Krauss-Maffei-Str. 1, Germany ~72:
CZOK, Matthias;RACZEK, Matthias;SPORK, Roland~ 33:DE ~31:10 2019 106 848.7 ~32:18/03/2019

2021/05500 ~ Complete ~54:CLEANING AND DECONTAMINATION DEVICE FOR RAW MATERIALS USED IN
THE PRODUCTION OF OPTOELECTRONIC DEVICES ~71:West AnHui University, Yunlu Bridge West,
Lu'an, Anhui, People's Republic of China ~72: Du Chengtao;Fang Jie;He Rui;Liu Xiangyuan;Wei Xiangfei~

2021/05505 ~ Complete ~54:MULTIPOINT VALVE ~71:Fluidra Waterlinx (Pty) Ltd, 5 Kruger Street, Denver, Johannesburg 2094, Gauteng, SOUTH AFRICA, South Africa ~72: BOTHA, Hermanus Johannes~ 33:ZA ~31:2020/05066 ~32:17/08/2020

2021/05522 ~ Complete ~54:HANDLING AN INPUT/OUTPUT STORE INSTRUCTION ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BELMAR, Brenton;BRADBURY, Jonathan;DRIEVER, Peter;JACOBI, Christian;KLEIN, Matthias;KRAEMER, Marco;LEHNERT, Frank;RAISCH, Christoph~ 33:EP ~31:19154735.5 ~32:31/01/2019

2021/05512 ~ Complete ~54:METHODS AND COMPOSITIONS FOR INSERTION OF ANTIBODY CODING SEQUENCES INTO A SAFE HARBOR LOCUS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GONG, Guochun;HARTFORD, Suzanne;KYRATSOS, Christos;WANG, Cheng;YANCOPOULOS, George, D.;ZAMBROWICZ, Brian~ 33:US ~31:62/828,518 ~32:03/04/2019;33:US ~31:62/887,885 ~32:16/08/2019

2021/05497 ~ Complete ~54:ALMOND PLANT ~71:INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES - IRTA, Torre Marimon, C-59, Km. 12.1, Spain ~72: Dr. Simó; Alegre CATELLV~ 33:ZA ~31:2020/04792 ~32:03/08/2020

2021/05507 ~ Complete ~54:HARVESTING, THRESHING AND IMPURITY REMOVING DEVICE FOR FIBER CROPS ~71:HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER, No. 546, Xiaoran South, People's Republic of China;ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), No. 508, Cunwang Village, Wangcun, Youhu Line, Linpu Town, People's Republic of China ~72: AN, Xia;CHEN, Changli;JIN, Guanrong;LI, Wenlue;LIU, Tingting;LUO, Xiahong;YING, Jinyao;ZHOU, Huaping;ZHU, Guanlin~

2021/05513 ~ Complete ~54:NON-HUMAN ANIMALS COMPRISING A HUMANIZED COAGULATION FACTOR 12 LOCUS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ALESSANDRI-HABER, Nicole;CHALOTHORN, Dan;MACDONALD, Lynn;MITNAUL, Lyndon;MORTON, Lori;TANG, Yajun;ZAMOLODCHIKOV, Daria~ 33:US ~31:62/829,321 ~32:04/04/2019

2021/05506 ~ Complete ~54:VEHICLE WHEELS ~71:VAN TONDER, Marthinus Petrus, 13 Iris Road, Riversdale, South Africa ~72: VAN TONDER, Marthinus Petrus~ 33:ZA ~31:2020/01954 ~32:04/05/2020

2021/05734 ~ Provisional ~54:SPITTING CONTAINER (JACK SPIT) ~71:JACK THALUKI KOMAPE, 188 MORITING SECTION,, South Africa ~72: JACK THALUKI KOMAPE~

2021/05502 ~ Complete ~54:A BIOFILM AQUACULTURE WASTEWATER TREATMENT SYSTEM ~71:Pearl River Fisheries Research Institute, Chinese Academy of Fishery Sciences, 1 Xingyu Road, Liwan District, Guangzhou, Guangdong, People's Republic of China ~72: Gong Wangbao;Li Zhifei;Tian Jingjing;Wang Guangjun;Xia Yun;Xie Jun;Yu Ermeng;Zhang Kai~

2021/05494 ~ Provisional ~54:PRE-STRESSING DEVICE AND RELATED SUPPORT ASSEMBLY ~71:SCHMIDT, Melvin Malcolm, Xanadu 375, Hartbeespoort 0279, SOUTH AFRICA, South Africa ~72: SCHMIDT, Melvin Malcolm~

2021/05521 ~ Complete ~54:ENHANCED NITRATE COMPOSITIONS AND METHODS OF USE ~71:ThermoLife International, LLC, 1334 E. Chandler Blvd, #5-D76, PHOENIX 85048, AZ, USA, United States of America ~72: KRAMER, Ronald;NIKOLAIDIS, Alexandros~ 33:US ~31:62/800,361 ~32:01/02/2019;33:US ~31:62/866,540 ~32:25/06/2019;33:US ~31:16/779,349 ~32:31/01/2020

2021/05526 ~ Complete ~54:FIBER COLLECTOR FOR MELT-BLOWN NON-WOVEN CLOTH PRODUCTION LINE ~71:ZHEJIANG YUYAN INDUSTRIAL DESIGN CO., LTD, No.17 Jiaotong Road, Haiyou Street, Sanmen County, Taizhou City, People's Republic of China ~72: CHEN, Yue;LIN, Zeshun;MEI, Juwei;MEI, Lisha~ 33:CN ~31:202010551056.1 ~32:17/06/2020

2021/05499 ~ Complete ~54:ELECTROWETTING DISPLAY AND MANUFACTURING METHOD THEREOF ~71:Academy of Shenzhen Guohua Optoelectronics,Ltd., No.1301-1,Tourism Road, Guanlan Da Bu Xiang Longhua Distric, Shenzhen, People's Republic of China;Shenzhen Guohua Optoelectronics Tech. Co. Ltd., No.1301-1,Tourism Road, , Guanlan Da Bu Xiang, Longhua Distric, Shenzhen, People's Republic of China ~72: Guo Yuanyuan;Zhou Guofu~

2021/05511 ~ Complete ~54:METHOD FOR AUTOMATED PRODUCTION OF A VASCULAR ENDOPROSTHESIS ~71:ASSOCIATION MARIE LANNELONGUE, 133, avenue de la Résistance, France ~72: FABRE, Dominique;HAULON, Stéphan~ 33:FR ~31:FR1900042 ~32:03/01/2019

2021/05498 ~ Complete ~54:SEAMLESS SWITCHING SYSTEM APPLICABLE FOR LOW VOLTAGE RIDE-THROUGH OF VIRTUAL SYNCHRONOUS GENERATOR ~71:Inner Mongolia University of Technology, No.49 Aimin Street, Xincheng District, Hohhot, Inner Mongolia Autonomous Region, People's Republic of China ~72: Li Hua;Li Le~

2021/05492 ~ Provisional ~54:A METHOD AND COMPUTER SYSTEM FOR MANAGING PATIENT CONSULTATIONS ~71:SCANMED HEALTH PROPRIETARY LIMITED, 14 Stauch Street, Klein Windhoek, Windhoek, NAMIBIA, Namibia ~72: MURPHY, Patrick~

- APPLIED ON 2021/08/04 -

2021/05759 ~ Complete ~54:NON-IMMUNOSUPPRESSIVE FK506 ANALOGS AND USE THEREOF ~71:THE JOHNS HOPKINS UNIVERSITY, 3400 N. Charles Street, Baltimore, Maryland, 21218, United States of America ~72: ALI AHMADI;BRANDON J PEIFFER;HANJING PENG;JUN O LIU;LE QI;YUEFAN WANG;ZHAOLI SUN;ZUFENG GUO~ 33:US ~31:62/795,700 ~32:23/01/2019

2021/05900 ~ Complete ~54:DEVICE FOR CHECKING LACK OF VOLTAGE IN AN ELECTRIC CIRCUIT ~71:Neoratech, 53 Rue de la Paix, TROYES 10000, FRANCE, France ~72: ARBET-PONT, Mathias;CAZOR, Thomas~ 33:FR ~31:1901198 ~32:06/02/2019

2021/05901 ~ Complete ~54:AFABICIN FORMULATION, METHOD FOR MAKING THE SAME ~71:Debiopharm International S.A., Forum "après-demain", Chemin Messidor 5-7, LAUSANNE 1002, SWITZERLAND, Switzerland ~72: CHABAUD, Sebastien;COLIN, Aude Anne-Laure;DECRETTE, Marie~ 33:EP ~31:19157255.1 ~32:14/02/2019

2021/05740 ~ Complete ~54:ACCESSORY POWER CENTER FOR VEHICLE ~71:MAHINDRA N.A. TECH CENTER, 275 Rex Boulevard, United States of America ~72: BLUMENSTEIN, Damon~ 33:US ~31:16/245,629 ~32:11/01/2019

2021/05762 ~ Complete ~54:FORMWORK FRAME, FORMWORK ELEMENT, CEILING FORMWORK AND METHOD ~71:DOKA GMBH, Josef Umdasch Platz 1, 3300, Amstetten, Austria ~72: CHRISTOPH BARON;PHILIPP SCHAGERL~ 33:EP ~31:19159607.1 ~32:27/02/2019

2021/05750 ~ Complete ~54:RIFLE SCOPE TURRET WITH TOOL-FREE ZEROING ~71:SHELTERED WINGS d/b/a VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: HAMILTON, David;MORELL, Rob;PARKS, Scott;TOY, Seth~ 33:US ~31:62/789,769 ~32:08/01/2019

2021/05763 ~ Complete ~54:MARINE OUTBOARD MOTOR WITH CRANKCASE VENTILATION ~71:COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: NILE FULKER~ 33:GB ~31:1903091.5 ~32:07/03/2019

2021/05738 ~ Complete ~54:RETROFITTED SUPPORT FOR A JACK ~71:PIERCE, Roger Charles, 21 Goshawk Lane, Blue Gill Estate, Glen Marais Ext 22, South Africa ~72: PIERCE, Roger Charles~

2021/05761 ~ Complete ~54:LATENCY ADJUSTMENT OF USER INPUT DEVICES ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: CHRISTOPHER JOHN TECTOR;CHRISTOPHER MICHAEL MCALLEN;HAMZE KALACHE;JAMES ANDREW GOOSSEN;MATTHEW BRONDER~ 33:US ~31:16/290,867 ~32:02/03/2019

2021/05764 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO SULFUR BASED PESTICIDES ~71:AGRONATURALIS LTD, Suite B, Crown House, 2 Southampton Road Ringwood, Hampshire, BH24 1HY, United Kingdom;SCAM S.P.A, Strada Bellaria 164, 41126, Modena, Italy ~72: MATTEO AMADEI;RICHARD MILLING~ 33:GB ~31:1901763.1 ~32:08/02/2019;33:GB ~31:1910221.9 ~32:17/07/2019

2021/05529 ~ Provisional ~54:TANK CLEANING DEVICE AND METHOD ~71:DU RAND, Andre, Joachim, Henry, 14 BUCKINGHAM ROAD, PLUMSTEAD, WESTERN CAPE, 7801, SOUTH AFRICA, South Africa ~72: DU RAND, Andre, Joachim, Henry~

2021/05760 ~ Complete ~54:RELATIVE SPATIAL LOCALIZATION OF MOBILE DEVICES ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: MARC ANDRE LEON POLLEFEYS~ 33:US ~31:16/357,582 ~32:19/03/2019

2021/05742 ~ Complete ~54:MODULATORS OF MALAT1 EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: FREIER, Susan, M.;KIM, Youngsoo;MACLEOD, Robert~ 33:US ~31:62/811,460 ~32:27/02/2019;33:US ~31:62/950,812 ~32:19/12/2019

2021/05751 ~ Complete ~54:FERMENTATION BROTHS AND THEIR USE ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: ERHARDT, Frank;FALKE, Lukas;GIATISIS, Christos;PELZER, Stefan;STANNEK-GÖBEL, Lorena~ 33:EP ~31:19151165.8 ~32:10/01/2019

2021/05765 ~ Complete ~54:USE OF VIBEGRON TO TREAT OVERACTIVE BLADDER ~71:UROVANT SCIENCES GMBH, Viaduktstrasse 8, 4051, Basel, Switzerland ~72: PAUL MUDD JR~ 33:US ~31:62/820,230 ~32:18/03/2019;33:US ~31:62/830,302 ~32:05/04/2019;33:US ~31:62/842,435 ~32:02/05/2019;33:US ~31:62/885,767 ~32:12/08/2019;33:US ~31:62/897,019 ~32:06/09/2019;33:US ~31:62/904,429 ~32:23/09/2019

2021/05733 ~ Provisional ~54:QUADCHIP - MULTIPLE CHIP BANK CARD ~71:Maculata Müller, 19 Plein Street, South Africa ~72: Maculata Müller~

2021/05737 ~ Complete ~54:METHOD TO MONITOR RIVER WATER QUALITY ~71:GUPTA, Ajay Kumar, University Institute of Pharmacy, CSJM University, UP, India;KATIYAR, Praveen, University Institute of Health Sciences, CSJM University, UP, India;KATIYAR, Shaswat, Department of Biosciences and Biotechnology, CSJM University, UP, India;SINGH, Dharam, Department of Biosciences and Biotechnology, CSJM University, UP, India;TIWARI, Gaurav, Institute of Pharmacy, Pranveer Singh Institute of Technology, Bhauti, UP, India ~72: GUPTA, Ajay Kumar;KATIYAR, Praveen;KATIYAR, Shaswat;SINGH, Dharam;TIWARI, Gaurav~

2021/05744 ~ Complete ~54:SYSTEM, METHOD, AND COMPUTER READABLE MEDIUM FOR DEVELOPING PROFICIENCY OF A USER IN A TOPIC ~71:HEADWAY INNOVATION, INC., 1 Radisson Plz, United States of America ~72: Alexander Sergeevich YURYEV;Valeriy Timofeevich SKUBEEV~

2021/05747 ~ Complete ~54:COMPOSITIONS ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, (sin número), Zona Industrial, Mexico ~72: LOW, Robert~ 33:GB ~31:1901885.2 ~32:11/02/2019;33:GB ~31:1901890.2 ~32:11/02/2019;33:WO ~31:PCT/GB2019/052290 ~32:14/08/2019

2021/05739 ~ Complete ~54:DRILL RIG ~71:K2014013441 (Pty) Ltd T/A NM Properties, 10 Elsenbroek Street, POTCHEFSTROOM 2531, SOUTH AFRICA, South Africa ~72: VAN JAARVELD, Maarten Jacobus~ 33:ZA ~31:2020/06034 ~32:30/09/2020

2021/05741 ~ Complete ~54:ANTICANCER COMBINATION THERAPY ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BAUER, Markus Johann;DROBITS-HANDL, Barbara;ZINZALLA, Vittoria~ 33:EP ~31:19166375.6 ~32:29/03/2019

2021/05749 ~ Complete ~54:LIQUID PHARMACEUTICAL FORMULATIONS OF PTH CONJUGATES ~71:ASCENDIS PHARMA BONE DISEASES A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: BARON, Julia;CLEEMANN, Felix;HOFFMANN, Eric;SØRENSEN, Michael, Duelund;SKANDS, Anja R.H;SPROGØE, Kennett~ 33:EP ~31:19156485.5 ~32:11/02/2019;33:EP ~31:19168857.1 ~32:12/04/2019

2021/05532 ~ Provisional ~54:A TRADING SYSTEM ~71:MILLS, Nii-Odartey, 3 GOMPOU STREET, TUSCANY VILLAGE CASHAN, RUSTENBURG, NORTH WEST, SOUTH AFRICA, South Africa;NEL, Vickus, 336 DOMINION ROAD, TUAKAU, 2121, NEW ZEALAND, South Africa ~72: MILLS, Nii-Odartey;NEL, Vickus~

2021/05743 ~ Complete ~54:COMPREHENSIVE SYSTEM AND METHODOLOGY BASED ON CROSS-DISCIPLINARY STUDIES OF COGNITIVE SCIENCE, LEARNING THEORIES AND PEDAGOGIES ~71:HEADWAY INNOVATION, INC., 1 Radisson Plz, United States of America ~72: Alexander Sergeevich YURYEV;Valeriy Timofeevich SKUBEEV~

2021/05752 ~ Complete ~54:HALOALLYLAMINE COMPOUNDS AND APPLICATION THEREOF ~71:NANJING TRANSTHERA BIOSCIENCES CO., LTD., FLOOR 3, BUILDING 9, PHASE 2 ACCELERATOR, BIOTECH AND PHARMACEUTICAL VALLEY, JIANGBEI NEW AREA NANJING, JIANGSU 210032, CHINA, People's Republic of China ~72: LI, Lin;WAN, Zhonghui;WU, Frank~ 33:CN ~31:201910025251.8 ~32:11/01/2019;33:CN ~31:201910196383.7 ~32:15/03/2019;33:CN ~31:201910434159.7 ~32:23/05/2019;33:CN ~31:201910914387.4 ~32:24/09/2019;33:CN ~31:201911026383.9 ~32:26/10/2019

2021/05753 ~ Complete ~54:CRYSTALLINE FORMS OF 1-(1,2-DIMETHYLPROPYL)-N-ETHYL-5-METHYL-N-PYRIDAZIN-4-YL-PYRAZOLE-4-CARBOXAMIDE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: CHIODO, Tiziana;GEBHARDT, Joachim;GOCKEL, Birgit;GOETZ, Roland;KLAUBER, Eric, George;RACK, Michael;SOERGEL, Sebastian;VIERTELHAUS, Martin;VOGT, Florian;XU, Wen~ 33:EP ~31:19151447.0 ~32:11/01/2019

2021/05756 ~ Complete ~54:METHODS OF JET MILLING AND SYSTEMS ~71:CTL ENERGY, INC., 326 First Avenue Hyde Park, United States of America ~72: BADAC, Jeffrey;RALEIGH, Cliff;TROIANO, Richard~ 33:US ~31:62/790,297 ~32:09/01/2019

2021/05902 ~ Complete ~54:APPARATUS, SYSTEM AND METHOD FOR COMMUNUTION ~71:COMRE IP Pty Ltd, 241 Jesmond Road, Fig Tree Pocket, 4068, QUEENSLAND, AUSTRALIA, Australia ~72: POWELL, Malcolm Strathmore~ 33:AU ~31:2019900030 ~32:05/01/2019

2021/05746 ~ Complete ~54:COMPOSITIONS ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, (sin número), Zona Industrial, Mexico ~72: LOW, Robert~ 33:GB ~31:1901885.2 ~32:11/02/2019;33:GB ~31:1901890.2 ~32:11/02/2019;33:WO ~31:PCT/GB2019/052290 ~32:14/08/2019

2021/05748 ~ Complete ~54:METHOD AND APPARATUS FOR TWO-STEP RANDOM ACCESS PROCEDURE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: LIN, Zhipeng~ 33:CN ~31:PCT/CN2019/070625 ~32:07/01/2019

2021/05754 ~ Complete ~54:ELECTROCHEMICAL GASOTRANSMITTER GENERATING COMPOSITIONS AND BIMETALLIC CELLS FOR THE GENERATION OF GASOTRANSMITTERS ~71:NOXSANO INC., 1275 KINNEAR ROAD, COLUMBUS, OHIO 43212, USA, United States of America ~72: ADAMS, Jacob, Robert;SAMUEL, Stevan;WILLEY, Alan~ 33:US ~31:62/791,317 ~32:11/01/2019

2021/05755 ~ Complete ~54:VIBRATING STATIONARY EXERCISE MACHINE ~71:DE JONGE, Hendrik, Jan, FORBES AVENUE 66, PORT ELIZABETH, 6001, SOUTH AFRICA, South Africa ~72: DE JONGE, Hendrik, Jan;RAUTENBACH, Isaac, Louis~

2021/05745 ~ Complete ~54:FORMWORK ELEMENT AND FORMWORK CONSTRUCTION KIT ~71:PASCHAL-WERK G. MAIER GMBH, Kreuzbühlstrasse 5, Germany ~72: Bernd KURTH;Uwe HÄGERICH~ 33:DE ~31:10 2019 104 315.8 ~32:20/02/2019

2021/05758 ~ Complete ~54:VEHICLE STORAGE SYSTEM ~71:MAHINDRA AUTOMOTIVE NORTH AMERICA INC., 275 Rex Blvd., Auburn Hills, Michigan, 48326, United States of America ~72: ANTHONY A PACELLA;JOHN P PACELLA;ROBERT B GEORGEFF;TIMOTHY L SHELDON~ 33:US ~31:62/789,225 ~32:07/01/2019

2021/05766 ~ Complete ~54:CONTACT IDENTIFICATION SYSTEM ~71:AUTOMATECH (PTY) LTD, 3rd Floor, The Crest Office Park, 154 Goedemoed Road, South Africa ~72: KRUGER, Gert, Jacobus;SHUDA, Joseph, Eduan;STEVENS, Timothy, John;VISAGIE, Abraham~ 33:ZA ~31:2020/02552 ~32:08/05/2020

2021/05735 ~ Complete ~54:DRILL MAST LOCKING SYSTEM ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, Denison, United States of America ~72: GLOVER, Rex A.;MOBERG, Carl J.~ 33:US ~31:16/991,008 ~32:11/08/2020

2021/05736 ~ Complete ~54:METHOD, DEVICE AND READABLE MEDIUM FOR EVALUATING STRUCTURAL STRENGTH OF FIBER AND NANO REINFORCED CONCRETE ~71:Zhengzhou Institute of Aeronautical Industry Management, No.15 Wenyuan West Road, Zhengdong New District, Zhengzhou, Henan, People's Republic of China ~72: Guan Qiaoyan;Li Han;Shi Ke;Xie Xiaopeng;Zhu Qian~

- APPLIED ON 2021/08/05 -

2021/05660 ~ Provisional ~54:A RECEPTACLE FOR WASHING ~71:VAN DER MERWE, Nicolaas, Johannes, 235 VONKPROP ROAD, WALTLOO,, South Africa ~72: VAN DER MERWE, Nicolaas, Johannes;VAN NIEKERK, Andre, Louis~

2021/05659 ~ Provisional ~54:METHOD OF INCREASING THE EFFICIENCY OF AN AERIAL VEHICLE ~71:IARC CC, 38 KUDU ROAD, BALLITO,, South Africa ~72: VENTER,JACQUES~

2021/05658 ~ Provisional ~54:A PACKAGE DELIVERY TRACKING SYSTEM ~71:SCHWARTZMAN,NEIL DAVID, SUITE 202, 16 CHARTWELL DR, GRANADA SQUARE, UMHLANGA ROCKS,, South Africa;VOSLOO,MARCUS STEFAAN, 18 ELDERBERRY DRIVE, GLENHILLS, DURBAN NORTH,, South Africa ~72: SCHWARTZMAN,NEIL DAVID;VOSLOO,MARCUS STEFAAN~

2021/05661 ~ Provisional ~54:GLOVE,RIGID GUARD STRUCTURE FOR A GLOVE AND A METHOD OF MANUFACTURING A GLOVE ~71:QUINLAN ,Stephen John, No 5 Eyton Terrace, 28 Eyton Road Claremont , South Africa ~72: QUINLAN ,Stephen John~

2021/05663 ~ Complete ~54:A POWER GENERATION SYSTEM ~71:AZARIOUS ELECTRICAL AND DIGITAL SERVICES CC, 33 HORTON STREET KOKSTAD, South Africa ~72: MQINA, TEBHO AZARIOUS~ 33:ZA ~31:2020/04840 ~32:05/08/2020

2021/05662 ~ Complete ~54:EVALUATING ENTITY BEHAVIOUR IN A CONTRACTUAL SITUATION ~71:ADVENCO HOLDINGS PROPRIETARY LIMITED, 19th Floor Newton Tower, Sir William Newton Street Port Louis,, Mauritius ~72: NEL, Emli-Mari;VENTER, Jan Hendrik;VENTER, Pieter Andries;VENTER,Elizabeth~ 33:ZA ~31:2020/04843 ~32:05/08/2020

2021/05664 ~ Complete ~54:PROCESS FOR RECOVERING CLOSE BOILING PRODUCTS ~71:LANZATECH , INC., 8045 LAMON AVENUE , SUITE 400, SKOKIE, ILLINOIS, 60077, United States of America ~72: CONRADO,ROBERT JOHN;GAO,ALLAN HAIMING;GRIFFIN,DEREK WAYNE;TIAN,PENG~ 33:US ~31:62/803,120 ~32:08/02/2019

2021/05665 ~ Complete ~54:A TENSION BOARD FOR STRAINING WIRE NETTING ~71:WIREMAN PTY LIMITED, 102/20 Alfred Street Milsons Point , New South Wales, 2061, Australia ~72: LOWREY, Ian~ 33:AU ~31:2019900745 ~32:07/03/2019;33:AU ~31:2019902537 ~32:18/07/2019

- APPLIED ON 2021/08/06 -

2021/05535 ~ Provisional ~54:PEGLESS WASHING LINE ~71:RAILTON, Paul Edwin, Waikanae Beach,, New Zealand;SCHMELTZER, Hans Jorg Fritz Jochen, Waikanae Beach,, New Zealand ~72: RAILTON, Paul Edwin;SCHMELTZER, Hans Jorg Fritz Jochen~

2021/05541 ~ Complete ~54:CT RADIOMICS-BASED AUXILIARY ASSESSMENT METHOD AND SYSTEM FOR LUNG CANCER PROGNOSIS ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: GUO, Jianqiang;HU, Dong;LIU, Yafeng;WANG, Qingsen;WANG, Wenyang;WU, Jing;XING, Yingru;ZHOU, Jiawei~

2021/05538 ~ Provisional ~54:CELL HOLDER FOR A COMMUNICATION MAST ~71:HARMSE, Werner, Unit 13 Clavadel River Lodge, 4 Minaar Street, VAALPARK, Sasolburg 1947, Free State, SOUTH AFRICA, South Africa ~72: HARMSE, Werner~

2021/05549 ~ Complete ~54:THREE-DIMENSIONAL INTEGRATION SYSTEM OF SNAIL-FISH-PLANT FOR CONTROLLING WATER EUTROPHICATION ~71:Hangzhou Normal University Qianjiang College, No.16 Xuelin Road, Qiantang District, Hangzhou, Zhejiang, People's Republic of China ~72: Cao Yong;Jiang Xia;Li Weidong;Liu Qi;Yang Huayun~

2021/05553 ~ Complete ~54:GAS PERMEABLE BRICK CONTAINING CORUNDUM CERAMIC BALLS AND PREPARATION METHOD THEREOF ~71:Yingkou Stone High Temperature New Materials Technology Co.,Ltd., Guan Tun Village, Guan Tun Town, Dashiqiao City, Yingkou, Liaoning 115100, People's Republic of China ~72: CHEN, Xiaolin;HAO, Dong;YU, Zhanguo~ 33:CN ~31:202110040238.7 ~32:13/01/2021

2021/05582 ~ Complete ~54:AUTHENTICATION OF A CONTAINER AND/OR PRODUCT PACKAGED THEREIN ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: JESSICA R BRYANT;ROGER P SMITH~ 33:US ~31:16/294,602 ~32:06/03/2019

2021/05537 ~ Provisional ~54:METHOD OF INCREASING THE EFFICIENCY OF AN AERIAL VEHICLE
~71:IARC CC, 38 Kudu Road, Ballito, Kwazulu Natal, 4399, South Africa ~72: JACQUES VENTER~

2021/05564 ~ Complete ~54:MODULAR INSTALLATION FOR TREATING WATER BY FLOTATION ~71:VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, Immeuble L'Aquarène 1 Place Montgolfier, France ~72: Cristina DEL PICOLO;Giuseppe GIROLAMI;Nathalie VIGNERON-LAROSA;Romain VERCHERE~ 33:FR ~31:1901906 ~32:25/02/2019

2021/05580 ~ Complete ~54:REMOVAL OF INTERFERENCE OF ABSORBERS FROM INTENSITY DATA ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KARL JOHNSTON;STEPHEN M GRAFF~ 33:US ~31:16/290,347 ~32:01/03/2019

2021/05542 ~ Complete ~54:VARIABLE PITCH CONTROL METHOD AND SYSTEM FOR ASYMMETRIC-AIRFOIL VERTICALAXIS WIND TURBINE ~71:Anhui University of Science & Technology, 168 Taifeng Road, People's Republic of China ~72: JING, Laiwang;LI, Liang;MIAO, Guanghong;WANG, Long;WU, Jianqiang~

2021/05550 ~ Complete ~54:MANUFACTURING METHOD OF SUPERHARD MATERIAL SURFACE PYRAMID STRUCTURE ~71:Shenyang University of Technology, No.111, Shenliao Road (West), Tiexi District, Shenyang, Liaoning, People's Republic of China ~72: Wu Tianzheng;Yuan Zewei~

2021/05578 ~ Complete ~54:NOVEL METHODS AND RELATED TOOLS FOR CBD CONVERSION TO THC ~71:ALEX NIVOROZHKIN, 118 Dent Street, West Roxbury, Massachusetts, 02132, United States of America;ARIELIUM HEALTH, LLC, 118 Dent Street, West Roxbury, Massachusetts, 02132, United States of America ~72: ALEX NIVOROZHKIN~ 33:US ~31:62/791,122 ~32:11/01/2019

2021/05571 ~ Complete ~54:PROSTATE NEOANTIGENS AND THEIR USES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: BACHMAN, Kurtis E.;BHARGAVA, Vipul;DAVIS, Darryl L.;GOTTARDIS, Marco;KRISHNA, Vinod;LEONI, Guido;POCALYKO, David;SAFABAKHSH, Pegah;SEPULVEDA, Manuel;SIEGEL, Derick~ 33:US ~31:62/790,673 ~32:10/01/2019;33:US ~31:62/851,273 ~32:22/05/2019;33:US ~31:62/883,786 ~32:07/08/2019;33:US ~31:62/913,969 ~32:11/10/2019

2021/05544 ~ Complete ~54:DRILL STEEL RETRIEVAL ~71:VAN ZYL, John Dean, Cnr Fiat & Harred Road, Aureus Industrial Site, South Africa ~72: VAN ZYL, John Dean~

2021/05548 ~ Complete ~54:DUCK STEAK AND PREPARATION METHOD THEREOF ~71:Xuzhou University of Technology, No. 2, Lishui Road, Yunlong Dist., Xuzhou, Jiangsu, People's Republic of China ~72: Lihua Ma~

2021/05562 ~ Complete ~54:FILTRATION MEDIA PACKS PRODUCED USING ADDITIVE MANUFACTURING ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: MOREHOUSE III, Darrell L.;RODRIGUEZ, Javier A.;SPENGLER, Philip C.~ 33:US ~31:16/268,930 ~32:06/02/2019

2021/05565 ~ Complete ~54:BIDIRECTIONALLY-FEEDING SLUDGE SOLIDIFICATION APPARATUS FOR SLUDGE TREATMENT ~71:JIANGSU VOCATIONAL AND TECHNICAL COLLEGE OF ARCHITECTURE, 26 Xueyuan Road, Quanshan District, Xuzhou, Jiangsu, 221000, People's Republic of China ~72: Bin DU;Gaoyuan YAN;Linglei ZHANG;Lei WANG;Qiangqiang CHENG;Xiaoyan NI;Yu GUO;Zhiqiang ZHAO~ 33:CN ~31:202011346938.0 ~32:26/11/2020

2021/05811 ~ Complete ~54:A SYSTEM AND METHOD FOR PROCESSING A TRANSACTION ~71:ENTERSEKT INTERNATIONAL LIMITED, LEVEL 3, ALEXANDER HOUSE, 35 CYBERCITY, EBENE,

Mauritius ~72: BESTER, DANIEL DEETLEFS.;NOLTE, DEWALD DE RIDDER.;OOSTHUIZEN, GERHARD GYSBERT.~ 33:ZA ~31:2018/00548 ~32:26/01/2018

2021/05557 ~ Complete ~54:CONVEYING ROBOT HAVING MONORAIL CRANE FOR COAL MINE WITH COMPLEX GEOLOGICAL CONDITIONS ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: JIN, Huawei;KOU, Ziming;WANG, Ding;WANG, Guorong;XU, Huan;XU, Jishun;YAN, Xuanxuan;ZHANG, Liang;ZHANG, Lixiang;ZUO, Ruiling~

2021/05810 ~ Provisional ~54:RECOVERY OF LIGNIN AND CARBOXYLIC ACID FROM BYPRODUCTS OF PULPING PROCESSES ~71:LIGNORGANIC (PTY) LTD, 6 MARK SHUTTLEWORTH STREET, THE INNOVATIONHUB, PRETORIA, GAUTENG, South Africa ~72: MANGOELE, TSHEPO~

2021/05555 ~ Complete ~54:CAP FOR A CONTAINER AND RELATED PRODUCTION METHOD ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: FABRIZIO PUCCI;FIORENZO PARRINELLO;GIOVANNI MAZZOTTI~ 33:IT ~31:102020000019534 ~32:06/08/2020

2021/05560 ~ Complete ~54:HYDROCYCLONE FOR DETECTING FORMATION OF A ROPING STATE ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: HEISKANEN, Kari;KAARTINEN, Jani;KOURUNEN, Jari;LOIMI, Janne;SAKARANAHU, Matti;SOINI, Teemu~ 33:WO ~31:PCT/FI2019/050020 ~32:11/01/2019

2021/05572 ~ Complete ~54:SIGNALING OF TRANSMISSION PARAMETERS ~71:QUALCOMM Incorporated, Attn: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: HOSSEINI, Seyedkianoush;LEI, Jing;LI, Chih-ping;MANOLAKOS, Alexandros;RICO ALVARINO, Alberto;SARKIS, Gabi~ 33:GR ~31:20190100065 ~32:07/02/2019;33:US ~31:16/783,149 ~32:05/02/2020

2021/05584 ~ Complete ~54:A CAP FOR CLOSING A CONTAINER, A COMBINATION OF A CAP AND A NECK ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ALESSANDRO FALZONI;CRISTIAN SPADONI;MARCO MAZZOTTI;MARCO SOZZI~ 33:IT ~31:102019000001381 ~32:30/01/2019;33:IT ~31:102019000001383 ~32:30/01/2019;33:IT ~31:1020190000012534 ~32:22/07/2019

2021/05567 ~ Complete ~54:PHARMACEUTICAL COMBINATIONS COMPRISING MEBENDAZOLE AND A STRONG OR MODERATE CYP1A2 INHIBITOR ~71:ZEPHAPHARM LTD, The Harley Building, 77 New Cavendish Street, United Kingdom ~72: TAYLOR, John~ 33:GB ~31:1901989.2 ~32:13/02/2019

2021/05570 ~ Complete ~54:FEEDBACK TRANSMISSION USING MULTIPLE ACCESS SIGNATURES ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: BAGHEL, Sudhir Kumar;BHARADWAJ, Arjun;BHUSHAN, Naga;GULATI, Kapil;NGUYEN, Tien Viet~ 33:US ~31:62/790,805 ~32:10/01/2019;33:US ~31:16/737,644 ~32:08/01/2020

2021/05545 ~ Complete ~54:SBR-MODIFIED ROAD ASPHALT PRODUCTION APPARATUS ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Nan;DUAN, Jichao;LEI, Xiaolei;LIU, Qinghua~

2021/05573 ~ Complete ~54:DEBLOCKING FILTER FOR SUB-PARTITION BOUNDARIES CAUSED BY INTRA SUB-PARTITION CODING TOOL ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao~ 33:US ~31:62/791,003 ~32:10/01/2019

2021/05539 ~ Provisional ~54:A COMPUTER-IMPLEMENTED METHOD OF MANAGING FILES ON A MOBILE DEVICE ~71:COETZER, Petrus Daniel, Cnr Friedman & Harold Streets, Plot 16, Mente Vrede, VANDERBIJLPARK 1912, Gauteng, SOUTH AFRICA, South Africa ~72: COETZER, Petrus Daniel~

2021/05533 ~ Provisional ~54:ORGANIC WASTE PROCESSOR ~71:GIFFORD, Jason Laurence, 14 Sinden Avenue, Randpark Ridge, South Africa ~72: GIFFORD, Jason Laurence~

2021/05543 ~ Complete ~54:APPLICATION OF REGULATING PEROXIDASE FAMILY GENES IN FIBROSIS-RELATED DISEASES ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: GUO, Jianqiang;HU, Dong;LIU, Yafeng;SU, Yixin;WANG, Wenyang;WU, Jing;XING, Yingru;ZHOU, Jiawei~

2021/05547 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF SULFUR MODIFIED ACTIVE CARBON SUPPORTED NOBLE METAL CATALYST ~71:Zhejiang University of Technology, No. 18, Chaowang Road, Gongshu District, Hangzhou, Zhejiang, People's Republic of China ~72: Feng Feng;Li Xiaonian;Lu Chunshan;Ma Lei;Zhang Qunfeng;Zhou Yuan~

2021/05575 ~ Complete ~54:ANTI-CD38 ANTIBODIES AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF AUTOANTIBODY-MEDIATED AUTOIMMUNE DISEASE ~71:MORPHOSYS AG, Semmelweisstrasse 7, 82152, Planegg, Germany ~72: DANIEL KLUNKER;RAINER BOXHAMMER;STEFAN HÄRTLE;STEFAN STEIDL;TIAN TOM JARUTAT~ 33:EP ~31:19163036.7 ~32:15/03/2019

2021/05579 ~ Complete ~54:CONTENT DELIVERY NETWORK SYSTEM AND METHOD ~71:MARGO NETWORKS PVT. LTD., DEVX, 7th Floor, A Wing, Dynasty Business Park, Commercial Premises Co-operative Society Ltd., Andheri-Kurla Road, Andheri East, Mumbai, 400065, India ~72: DEVANG GORADIA;RIPUNJAY BARARIA;ROHIT PARANJPE~ 33:IN ~31:201921000982 ~32:09/01/2019

2021/05583 ~ Complete ~54:METHODS OF DIAGNOSING AND TREATING CERVICAL CANCER ~71:TIMSER, S.A.P.I. DE C.V., Meseta 232, Col Jardines Del Pedregal Alcatraz Alvaro Obregon, Ciudad De Mexico, C.P. 01900, Mexico ~72: ALBERTO CHECA ROJAS;ORLANDO SANTILLÁN GODÍNEZ;RAÚL DOMÍNGUEZ PALESTINO~ 33:MX ~31:MX/A/2019/005940 ~32:21/05/2019

2021/05559 ~ Complete ~54:PREPARATION METHOD OF PROTECTIVE COATING FOR IC EQUIPMENT PLASMA ETCHING CHAMBER ~71:SHENYANG FORTUNE PRECISION EQUIPMENT CO., LTD, No. 1 8A-1, Feiyun Road, Hunnan New District, Shenyang, People's Republic of China ~72: CUI, Xinyu;HOU, Tao;SHEN, Yanfang;XIONG, Tianying;ZHENG, Guangwen~ 33:CN ~31:201910130903.4 ~32:22/02/2019

2021/05561 ~ Complete ~54:3D PRINTED MECHANICAL LOCKS FOR END CAP POTTING ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: MOREHOUSE III, Darrell L.;RODRIGUEZ, Javier A.~ 33:US ~31:16/267,850 ~32:05/02/2019

2021/05568 ~ Complete ~54:ANTI-IL-36R ANTIBODY FORMULATIONS ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: DENKINGER, Sandra Nicole;KATAYAMA, Derrick Spencer;MEHRA, Rajni Prasad;PRESSER, Ingo Michael;SINGH, Ravija;STEINER, Anna Maria;WRIGHT, Sara Kay~ 33:US ~31:62/815,405 ~32:08/03/2019

2021/05569 ~ Complete ~54:COMPOUNDS AND METHODS FOR REDUCING KCNT1 EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BUI, Huynh-Hoa;FREIER, Susan, M.~ 33:US ~31:62/819,344 ~32:15/03/2019;33:US ~31:62/884,501 ~32:08/08/2019

2021/05577 ~ Complete ~54:THREE-DIMENSIONAL PRINTING OF A POROUS MATRIX ON A CONTAINER
~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551,
United States of America ~72: BRIAN J CHISHOLM~ 33:US ~31:16/294,434 ~32:06/03/2019

2021/05656 ~ Complete ~54:DRINK DISPENSING DEVICE ~71:BILIAS, Panagiotis, 4 Titanon Street, Greece
~72: BILIAS, Panagiotis~ 33:GR ~31:20190100016 ~32:14/01/2019

2021/05534 ~ Provisional ~54:COMPACT COFFEE PRESS ~71:CENTRAL UNIVERSITY OF TECHNOLOGY,
FREE STATE, 20 President Brand Street, South Africa ~72: Altus Van HEERDEN;George HUGO;William Allan
KINNEAR~

2021/05556 ~ Complete ~54:DOUBLE-ROW AXIAL PLUNGER PUMP BASED ON DIGITAL VARIABLE
DISPLACEMENT ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of
China ~72: CHEN, Qiangman;DENG, Haishun;DONG, Xinqiang;FANG, Siyuan;HE, Tao;LI, Zhipeng;LUO,
Gang;ZHAO, Kaiping~

2021/05585 ~ Complete ~54:ANTIBODIES BINDING TO PLASMODIUM CIRCUMSPOROZOITE PROTEIN AND
USES THEREOF ~71:HUMABS BIOMED SA, Via dei Gaggini, 3, 6500 Bellinzona, Switzerland;VIR
BIOTECHNOLOGY, INC., 499 Illinois St, Suite 500, San Francisco, California, 94158, United States of America
~72: DAVIDE CORTI;ELISABETTA CAMERONI;KATJA FINK;LUCA PICCOLI~ 33:EP ~31:PCT/EP2019/061135
~32:30/04/2019

2021/05586 ~ Complete ~54:PHARMACEUTICAL DELIVERY COMPOSITIONS AND USES THEREOF
~71:INNOVACORIUM, INC., UF Innovate 747 SW 2nd Ave, Suite #354, Gainesville, Florida, 32601, United
States of America ~72: MARCELO BUZZI~ 33:US ~31:62/791,005 ~32:10/01/2019

2021/05536 ~ Provisional ~54:AN OPTICAL FIBRE MONITORING DEVICE ~71:SMART LOCKING LOGIC (PTY)
LTD, 87 Regency Drive, Route 21 Corporate Park, IRENE, CENTURION 0157, Gauteng, SOUTH AFRICA, South
Africa ~72: SCOTT, Andrew Ernest~

2021/05540 ~ Provisional ~54:MORINGA BREAKFASTS ~71:Sello Dyllan Motau, 5a South Street, South
Africa;Sello Dyllan Motau, 5a South Street, South Africa ~72: Sello Dyllan Motau~

2021/05551 ~ Complete ~54:REMOTE CONTROL PLATFORM FOR DIGITAL MEDIA ART EXHIBITION
~71:Gao Ruitong, No.402, Unit 3, Building 1, No.89 Jianshe Road, Central District, Jinan, Shandong, People's
Republic of China;Su Beile, No.301, Unit 1, Building 4, No.84-1 Huayuan Road, Licheng District, Jinan,
Shandong, People's Republic of China;Su Yunqiao, No.301, Unit 1, Building 4, No.84-1 Huayuan Road, Licheng
District, Jinan, Shandong, People's Republic of China ~72: Gao Ruitong;Su Beile;Su Yunqiao~

2021/05576 ~ Complete ~54:PLASMA DETOXIFICATION METHODS AND SYSTEMS ~71:MARKER HOLDINGS
AG, Bahnhofstrasse 20, 6300 Zug, Switzerland ~72: RANDY WENTHOLD~ 33:US ~31:62/791,617
~32:11/01/2019

2021/05581 ~ Complete ~54:THREE-DIMENSIONAL PRINTING ON GLASS CONTAINERS ~71:OWENS-
BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of
America ~72: BRIAN J CHISHOLM;CEDRIC CHARRETTON;EVA MISFUD;LUDOVIC VALETTE;OLIVIER
DANGMANN;SUSAN L SMITH~ 33:US ~31:16/294,414 ~32:06/03/2019

2021/05546 ~ Complete ~54:QUANTITATIVE SEEDING DEVICE FOR FIBER CROPS ~71:Zhejiang Institute of
Garden Plants and Flowers (Zhejiang Xiaoshan Institute of Cotton & Bast Fiber Crops Research), 508,

Cunwang Village, Wangcun, People's Republic of China ~72: AN, Xia;CHEN, Changli;JIN, Guanrong;LI, Wenlue;LIU, Tingting;LUO, Xiahong;ZHANG, Zheng;ZHU, Guanlin~

2021/05552 ~ Complete ~54:INTELLIGENT CLOTHING DESIGN SYSTEM ~71:Gao Ruitong, No.402, Unit 3, Building 1, No.89 Jianshe Road, Central District, Jinan, Shandong, People's Republic of China;Su Yunqiao, No.301, Unit 1, Building 4, No.84-1 Huayuan Road, Licheng District, Jinan, Shandong, People's Republic of China ~72: Gao Ruitong;Su Yunqiao~

2021/05554 ~ Complete ~54:METHODS FOR PRODUCING CARBON FIBERS, RESINS, GRAPHENE, AND OTHER ADVANCED CARBON MATERIALS FROM COAL ~71:CARBON HOLDINGS INTELLECTUAL PROPERTIES, LLC, 11101 Sugarview Drive, Suite 201, Sheridan, Wyoming, 82801, United States of America ~72: CHARLES ATKINS;GARRETT LINDEMANN;MATTHEW TARGETT~ 33:US ~31:62/610,037 ~32:22/12/2017

2021/05563 ~ Complete ~54:TRACK JOINT ASSEMBLY IN MACHINE TRACK HAVING PIN STOP FOR CARTRIDGE PIN RETENTION ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: ELLMANN, Thomas;JONES, Benjamin I.;OERTLEY, Thomas E.~ 33:US ~31:16/269,244 ~32:06/02/2019

2021/05588 ~ Complete ~54:FOOD SUPPLEMENT ~71:MICROPHYT, 713 route de Mudaison, France ~72: DELBRUT, Antoine;PRADELLES, Rémi~ 33:FR ~31:19/01820 ~32:22/02/2019

2021/05618 ~ Complete ~54:BLASTING APPARATUS FOR ROCK UNDER MINE ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CUI, Yi;LIU, Ziqiang;PENG, Peng;WANG, Mengxiang;WANG, Qi~

2021/05558 ~ Complete ~54:DEVICE FOR TRIMMING THICK BRANCHES OF TREE ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: FENG, Yongqi;HU, Yaru;YANG, Xudong;ZHANG, Ruijie;ZHANG, Ziang~

2021/05566 ~ Complete ~54:BIOTECHNOLOGICAL OPTIMIZATION OF MICROORGANISMS FOR THE 1,2-DEHYDROGENATION OF STEROIDS ~71:SANOFI, 54 rue La Boétie, France ~72: JANOCHA, Bernd;LATTEMANN, Claus Tobias;RASSER, Hans-Falk;RISSOM, Sebastian~ 33:EP ~31:19305153.9 ~32:08/02/2019

2021/05574 ~ Complete ~54:METHODOF SAFE ADMINISTRATION OF PHOSPHORYLATED TAU PEPTIDE VACCINE ~71:AC Immune S.A., EPFL Innovation Park, Building B, LAUSANNE CH-1015, SWITZERLAND, Switzerland;Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Rd., TITUSVILLE 08560, NJ, USA, United States of America ~72: DE MARCO, Donata;GHIMIRE, Saroj Raj;MUHS, Andreas;PFEIFER, Andrea;PIHLGREN BOSCH, Maria;PIOT, Nicolas;RAMSBURG, Elizabeth Anne;SADAKA, Charlotte;VUKICEVIC VERHILLE, Marija~ 33:US ~31:62/802,870 ~32:08/02/2019

2021/05587 ~ Complete ~54:REPAIRING AN OUTER SURFACE OF A GLASS PRODUCT ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: BRIAN J CHISHOLM~ 33:US ~31:16/294,441 ~32:06/03/2019

- APPLIED ON 2021/08/10 -

2021/05612 ~ Complete ~54:HIGH-TEMPERATURE CYCLE EXPERIMENTAL FACILITY FOR ROCKS ~71:Anhui University of Science & Technology, No. 168 Taifeng Road, Shannan New District, Huainan, Anhui Province, 232001, People's Republic of China ~72: HUANG, Kun;MA, Dongdong;SHI, Yuhang;YUAN, Pu;ZHANG, Rongrong~ 33:CN ~31:202011385612.9 ~32:01/12/2020

2021/05632 ~ Complete ~54:BREATHABLE ADHESIVE BANDAGES ~71:SMITH, Lucas Hector Izard, 1640 Lilybank Road, Tekapo, New Zealand ~72: SMITH, Lucas Hector Izard~ 33:US ~31:62/811,033 ~32:27/02/2019

2021/05640 ~ Complete ~54:MODIFIED NATURAL KILLER (NK) CELLS FOR IMMUNOTHERAPY ~71:Editas Medicine, Inc., 11 Hurley Street, CAMBRIDGE 02141, MA, USA, United States of America ~72: BORGES, Christopher;WELSTEAD, Gordon Grant;WONG, Karrie Ka Wai~ 33:US ~31:62/806,457 ~32:15/02/2019;33:US ~31:62/841,066 ~32:30/04/2019;33:US ~31:62/841,684 ~32:01/05/2019;33:US ~31:62/943,649 ~32:04/12/2019

2021/05593 ~ Provisional ~54:ECO FRIENDLY FISHING WEIGHT ~71:Leonard Harmsen, 34 Zamia Palms, 119 Bolo Street, Moreletapark, South Africa ~72: Leonard Harmsen~ 33:WO ~31:A ~32:09/08/2021

2021/05589 ~ Provisional ~54:METHOD TO SECURE A GARMENT TO THE BODY ~71:Kitty Saarloos, 7 Geelvink Close, Vermont, Hermanus, South Africa ~72: Kitty Saarloos~

2021/05644 ~ Complete ~54:ANTITUMOR COMPOSITION ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-Machi, Chiyoda-Ku, Tokyo, 101-8535, Japan ~72: HIDEO TANAKA;MITSUHIRO OKUNO;NAOTO OHI~ 33:JP ~31:2019-057029 ~32:25/03/2019

2021/05649 ~ Complete ~54:CARBAMATE DERIVATIVES AND USES THEREOF ~71:NODTHERA LIMITED, The Mansion, Chesterford Research Park, Little Chesterford, Saffron Walden, United Kingdom ~72: BOCK, Mark G.;HARRISON, David~ 33:US ~31:62/796,724 ~32:25/01/2019

2021/05666 ~ Provisional ~54:WATERPROOF SANITARY PAD ~71:Charlene Koopman, 31 Emerald Way, Dennewere, South Africa ~72: Charlene Koopman~

2021/05638 ~ Complete ~54:MIXED OXIDE WITH HIGH PORE VOLUME ~71:Rhodia Operations, 52 rue de la Haie Coq, AUBERVILLIERS 93300, FRANCE, France ~72: OHTAKE, Naotaka;SASAKI, Toshihiro~ 33:EP ~31:19305245.3 ~32:03/03/2019;33:EP ~31:19305246.1 ~32:03/03/2019

2021/05643 ~ Complete ~54:PROCESSES AND COMPOUNDS ~71:RADIUS PHARMACEUTICALS, INC., 22 Boston Wharf Road, 7th Floor, Boston, Massachusetts, 02210, United States of America ~72: MICHAEL MARKEY~ 33:US ~31:62/804,391 ~32:12/02/2019

2021/05652 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR IMPLEMENTING TRANSFERS OVER A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;MACKAY, Alexander Tennyson;WRIGHT, Craig Steven~ 33:GB ~31:1902086.6 ~32:15/02/2019;33:GB ~31:1902088.2 ~32:15/02/2019;33:GB ~31:1902089.0 ~32:15/02/2019;33:GB ~31:1902090.8 ~32:15/02/2019;33:GB ~31:1902092.4 ~32:15/02/2019

2021/05597 ~ Complete ~54:USE GRAPHICAL REPRESENTATION-BASED USER AUTHENTICATION SYSTEM AND METHOD ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020;33:US ~31:17/060,485 ~32:01/10/2020

2021/05600 ~ Complete ~54:SYSTEM AND METHOD TO PROVISION CLOUD COMPUTING-BASED VIRTUAL COMPUTING RESOURCES WITHIN A VIRTUAL ENVIRONMENT ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020;33:US ~31:17/060,591 ~32:01/10/2020

2021/05636 ~ Complete ~54:DIHYDROOROTATE DEHYDROGENASE INHIBITORS ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: CISAR, Justin;JACOBY,

Edgar;KEOHANE, Colleen Elizabeth;KUDUK, Scott;SIMONNET, Yvan Rene Ferdinand;WANG, Chao-yuan~
33:US ~31:62/791,057 ~32:11/01/2019;33:US ~31:62/859,851 ~32:11/06/2019

2021/05603 ~ Complete ~54:SPATIAL VIDEO-BASED PRESENCE ~71:TMRW FOUNDATION IP SARL, 14-16,
Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020;33:US
~31:17/160,209 ~32:27/01/2021

2021/05604 ~ Complete ~54:METHOD FOR PREPARING IMPROVED NUTRIENT SOIL FROM MUNICIPAL
SLUDGE ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao City,
Shandong Province, 266109, People's Republic of China ~72: SHI, Hongtao;ZONG, Haiying~ 33:CN
~31:202110731677.2 ~32:29/06/2021

2021/05620 ~ Complete ~54:SYSTEM AND METHOD FOR LATCHING SOLENOID ACTIVATION DETECTION
FOR VRI AND OTHER IRRIGATION USES ~71:VALMONT INDUSTRIES, INC., One Valmont Plaza, United
States of America ~72: MOELLER, Mark~ 33:US ~31:62/829,146 ~32:04/04/2019

2021/05671 ~ Complete ~54:A TYPE OF CHICKEN FEED CONTAINING MICROALGAE AND CHINESE
HERBAL MEDICINE AND THE PREPARATION METHOD THEREOF ~71:HEXI UNIVERSITY, No. 846
Huancheng North Road, Ganzhou District, Gansu Province, People's Republic of China ~72: CHEN,
Guoshun;CHEN, Tianren;CHENG, Jiyu;LIU, Haiyan;LUO, Guanghong;SHAN, Huajia;WANG, Danxia;WANG,
Lijuan;YANG, Shenghui~ 33:CN ~31:202110442608.X ~32:23/04/2021

2021/05642 ~ Complete ~54:GRANULATED SUBSTANCE LOADING METHOD ~71:MITSUBISHI CHEMICAL
CORPORATION, 1-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo, 1008251, Japan ~72: DAISAKU
KANEKO;TAKUYA NAKAMURA~ 33:JP ~31:2019-066219 ~32:29/03/2019

2021/05607 ~ Complete ~54:UNIVERSAL TEST DEVICE FOR SIMULATING IMPACT CHARACTERISTICS OF
DEBRIS FLOW IN DEBRIS FLOW DITCH AND USING METHOD THEREOF ~71:Chen Hongkai, No.1
Bei'an Road, Shizhong District, Zaozhuang, Shandong, People's Republic of China;Hu Xiewen, No.11,
Section 1, 2nd Ring Road North, Jinniu District, Chengdu, Sichuan, People's Republic of China;Wang Shengjuan,
No.1 Bei'an Road, Shizhong District, Zaozhuang, Shandong, People's Republic of China;Zaozhuang
University, No.1 Bei'an Road, Shizhong District, Zaozhuang, Shandong, People's Republic of China ~72:
Chen Hongkai;Hu Xiewen;Wang Shengjuan~

2021/05619 ~ Complete ~54:ATOMIZER DEVICE ~71:ReSyCa B.V., Colosseum 23, Netherlands ~72: DE
KRUIJF, Wilhelmus Petrus Johannes;NIJDAM, Wietze;VAN EGMOND, Henri Joseph;VAN RIJN, Cornelis
Johannes Maria~ 33:NL ~31:2022560 ~32:12/02/2019

2021/05626 ~ Complete ~54:HIGH-VOLTAGE SWITCH CABINET SYSTEM AND METHOD FOR REPLACING
HIGH-VOLTAGE SWITCH CABINET THEREOF ~71:SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY
CO., LTD., Zhou, Shuhan Building 4, No. 907-10, China Railway Caizhi Center, 59 Industrial South Road, Gaoxin
District, Jinan, Shandong, 250101, People's Republic of China ~72: ZHANG, Jingmin~ 33:CN
~31:201910781249.3 ~32:22/08/2019

2021/05637 ~ Complete ~54:GUN BARREL MOUNTING AND GUN ~71:Rheinmetall Waffe Munition GmbH,
Heinrich-Ehrhardt-Str. 2, UNTERLÜß 29345, GERMANY, Germany ~72: BAUMANN,
Berthold;BORCHERT, Rüdiger;SCHWIEGER, Florian~ 33:DE ~31:10 2019 100 579.5 ~32:11/01/2019

2021/05641 ~ Complete ~54:RECOMBINANT ADENO-ASSOCIATED VIRUS FOR TREATMENT OF GRN-
ASSOCIATED ADULT-ONSET NEURODEGENERATION ~71:The Trustees of the University of Pennsylvania,
3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: HINDERER,

Christian;MILLER, Nimrod;WILSON, James M.~ 33:US ~31:62/809,329 ~32:22/02/2019;33:US ~31:62/923,812 ~32:21/10/2019;33:US ~31:62/969,108 ~32:02/02/2020

2021/05651 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR IMPLEMENTING TRANSFERS OVER A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;MACKAY, Alexander Tennyson;WRIGHT, Craig Steven~ 33:GB ~31:1902086.6 ~32:15/02/2019;33:GB ~31:1902088.2 ~32:15/02/2019;33:GB ~31:1902089.0 ~32:15/02/2019;33:GB ~31:1902090.8 ~32:15/02/2019;33:GB ~31:1902092.4 ~32:15/02/2019

2021/05623 ~ Complete ~54:METHOD, DEVICE AND COMPUTER READABLE MEDIUM FOR PAGING IN NEW RADIO SYSTEMS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: LIU, Jianguo;LUO, Zhe;MENG, Yan;SHEN, Gang;TAO, Tao~

2021/05653 ~ Complete ~54:A FLOW BATTERY MODULE ~71:Delectrik Systems Private Limited, House No 940, Sector 9A, GURGAON 122001, HARYANA, INDIA, India ~72: BHAT, Sunil;MITTAL, Vishal Onkarmal;SINGH, Mainpal~ 33:IN ~31:201911000927 ~32:08/01/2019

2021/05595 ~ Complete ~54:SYSTEM AND METHOD ENABLING INTERACTIONS IN VIRTUAL ENVIROMENTS ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020

2021/05610 ~ Complete ~54:PARALLEL ROLLING TYPE CONTINUOUS DRYING MACHINE ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: CHEN, Jun;LUAN, Jingjing;LUAN, Zhenhui;MENG, Xiangzhao;ZHANG, Liming~ 33:CN ~31:202010997476.2 ~32:21/09/2020

2021/05628 ~ Complete ~54:A FLOORING PANEL AND A FLOOR COVERING WITH SUCH PANEL ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: PERRA, Antonio Giuseppe~

2021/05646 ~ Complete ~54:QUICK-CHANGE SPLIT SHAFT ~71:BELVAC PRODUCTION MACHINERY, INC., 237 Graves Mill Road, Lynchburg, Virginia, 24502, United States of America ~72: WILLIAM STORRS REYNOLDS~ 33:US ~31:62/797,514 ~32:28/01/2019

2021/05903 ~ Complete ~54:METHOD AND MACHINE FOR CREATING AND SEALING FLAPS OF FLEXIBLE PACKAGES, AND VARIOUS MODELS OF FLEXIBLE 3D PLUS-TYPE PACKAGES ~71:LÓPEZ-AROSTEGUI SÁENZ, Guillermo, Telepintxo S.L., Zalbides auzoa, 13, Spain ~72: LÓPEZ-AROSTEGUI SÁENZ, Guillermo~

2021/05601 ~ Complete ~54:AD HOC VIRTUAL COMMUNICATION BETWEEN APPROACHING USER GRAPHICAL REPRESENTATIONS ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020;33:US ~31:17/060,623 ~32:01/10/2020

2021/05616 ~ Complete ~54:A RECLAIMED WATER TREATMENT UNIT, SYSTEM AND REGULATION METHOD ~71:NANJING HYDRAULIC RESEARCH INSTITUTE, No. 223, Guangzhou Road, Jiangsu Province, People's Republic of China ~72: CHEN, Feng;WANG, Xiaojun~ 33:CN ~31:202010808074.3 ~32:12/08/2020

2021/05624 ~ Complete ~54:RESOURCE DETERMINATION FOR COMMUNICATING UPLINK CONTROL SIGNAL IN WIDE BANDWIDTH DEPLOYMENTS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: HOOLI, Kari;LUNTTILA, Timo;SCHOBER, Karol;TIROLA, Esa~ 33:US ~31:62/790,676 ~32:10/01/2019

2021/05629 ~ Complete ~54:COAL-GEOTHERMAL ENERGY COLLABORATIVE EXPLOITATION METHOD BASED ON WATER-CONDUCTING FRACTURED ZONE OF FAULT ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1 Daxue Road, Tongshan District, People's Republic of China ~72: FENG, Xiujuan;HUANG, Yanli;KONG, Saibo;LI, Meng;MA, Dan;SUN, Qiang;WANG, Jiajun;ZHANG, Jixiong;ZHANG, Qiang;ZHOU, Nan~ 33:CN ~31:202010416817.2 ~32:18/05/2020

2021/05647 ~ Complete ~54:A COMPOSITE MATERIAL AND A METHOD TO PREPARE THE COMPOSITE ~71:CSIR, Scientia, Meiring Naud~233; Road, Brummeria, Pretoria, 0184, South Africa;MINTEK, 200 Hans Strijdom Drive, Randburg, Gauteng, 2194, South Africa ~72: LUCKY SIKHWIVHILU;THEMBELA HILLIE~

2021/05605 ~ Complete ~54:GREEN PLANTING REMEDIATION METHOD FOR HEAVY METAL POLLUTED SOIL ~71:Hangzhou Normal University Qianjiang College, No.16 Xuelin Road, Qiantang District, Hangzhou, Zhejiang, People's Republic of China ~72: Cao Yong;Jiang Xia;Li Weidong;Liu Qi;Sun Yan;Yang Huayun~

2021/05655 ~ Complete ~54:MULTIFUNCTIONAL ADDITIVE COMPOUNDS ~71:Huntsman Petrochemical LLC, 10003 Woodloch Forest Drive, THE WOODLANDS 77380, TX, USA, United States of America ~72: ZHAO, Haibo~ 33:US ~31:62/808,595 ~32:21/02/2019

2021/05594 ~ Provisional ~54:BOOM I AM HERE AND YOU CAN'T DENY ME ~71:ANN ELIZA STANDER, 593 MANSVELT STREET ELARDUSPARK, South Africa;CIFER BIO PTY LTD, 593 MANSVELT STREET ELARDUSPARK, South Africa ~72: ANN ELIZA STANDER~ 33:ZA ~31:2021 ~32:09/08/2021

2021/05606 ~ Complete ~54:BIAXIAL PHOTOVOLTAIC DEVICE AND SYSTEM FOR CONTROLLING GREENHOUSE ENVIRONMENT ~71:Yancheng Institute of Technology, No. 1, Middle hope Avenue, Tinghu District, Yancheng, Jiangsu, People's Republic of China ~72: Li Aiqin;Wei Wei;Wu Fan~

2021/05608 ~ Complete ~54:EXTRACTION METHOD OF NITRIFICATION INHIBITORS FROM CAMELLIA OLEIFERA SHELL AND ITS APPLICATION IN AGRICULTURAL SOILS ~71:Jiangxi Agricultural University, 1101 Zhimin Street, Nanchang, Jiangxi, People's Republic of China ~72: Deng Wenping;Lai Xiaoqin;Li Aixin;Liu Xiaojun;Luo Laicong;Zhang Ling~

2021/05621 ~ Complete ~54:ENZYME HEAT INACTIVATION TREATMENT DEVICE FOR OAT PROCESSING ~71:INSTITUTE OF AGRO-PRODUCTS PROCESSING SCIENCE AND TECHNOLOGY, SHANXI ACADEMY OF AGRICULTURAL SCIENCES, No.79 Longcheng Street, Xiaodian District, Taiyuan, Shanxi, 030031, People's Republic of China ~72: HAN, Jiming;LI, Hongyu;LI, Min;LIU, Weihu;MENG, Jingyan;ZHANG, Qianfang~ 33:CN ~31:202110744443.1 ~32:01/07/2021

2021/05625 ~ Complete ~54:FLOOR PANEL AND FLOOR COVERING ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: PERRA, Antonio Giuseppe~

2021/05630 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITION OF LINEAGE SPECIFIC ANTIGENS ~71:THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 412 LOW MEMORIAL LIBRARY, 535 WEST 116TH STREET, NEW YORK, NEW YORK 10027, USA, United States of America ~72: ALI, Abdullah, Mahmood;BOROT, Florence;MUKHERJEE, Siddhartha~ 33:US ~31:62/793,210 ~32:16/01/2019;33:US ~31:62/852,573 ~32:24/05/2019

2021/05639 ~ Complete ~54:COMPOSITE MICROCAPSULES ~71:Firmenich SA, Corporate Legal & Compliance - IP Group, 7, rue de la Berg~232;re, SATIGNY 1242, SWITZERLAND, Switzerland ~72: DARDELLE, Gregory;ERNI, Philipp;STRUILLLOU, Arnaud;VAN GRUIJTHUIJSEN, Kitty~ 33:EP ~31:19189145.6 ~32:30/07/2019

2021/05645 ~ Complete ~54:THREADED COUPLING FOR PERCUSSION DRILL BIT ~71:JAMES JING YAO, 5241 Middlebury Drive, Mississauga, Ontario, L5M 5E5, Canada ~72: JAMES JING YAO~ 33:US ~31:16/268,677 ~32:06/02/2019

2021/05648 ~ Complete ~54:FLEXIBLE BLADDER TANKS INCLUDING POLYKETONE ~71:RAVEN INDUSTRIES, INC, PO Box 5107, Sioux Falls, South Dakota 57117-5107, United States of America ~72: STEVEN G REDFORD~

2021/05654 ~ Complete ~54:METHOD OF PRODUCING A BINDER-TOXIN FUSION PROTEIN IN A PLANT CELL OR A WHOLE PLANT ~71:ATB Therapeutics, Rue de la Science 8, AYE 6900, BELGIUM, Belgium ~72: HOURY, Max;MAGY, Bertrand~ 33:EP ~31:19157839.2 ~32:18/02/2019

2021/05602 ~ Complete ~54:SPATIALLY-AWARE MULTIMEDIA ROUTER SYTEM AN METHOD ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/005,767 ~32:28/08/2020

2021/05615 ~ Complete ~54:DISSOLVABLE SACHET ~71:VISSER, Righardt Kobus, 84 Fagan street, Strand, South Africa ~72: VISSER, Righardt Kobus~ 33:ZA ~31:2021/05332 ~32:28/07/2021

2021/05622 ~ Complete ~54:GRAPHENE WOOL AND MANUFACTURE THEREOF ~71:UNIVERSITY OF PRETORIA, LYNNWOOD ROAD, HATFIELD, PRETORIA, 0002, South Africa ~72: FORBES, Patricia;SCHOONRAAD, Genna-Leigh~ 33:ZA ~31:2019/00674 ~32:01/02/2019;33:ZA ~31:2019/00675 ~32:01/02/2019

2021/05592 ~ Provisional ~54:ROOF FIXING ~71:ALLEN MICHAEL TUCKER, Unit 32 Sunset Boulevard 69 Coral Road, Table View, South Africa ~72: ALLEN MICHAEL TUCKER~

2021/05599 ~ Complete ~54:SYSTEM AND METHOD FOR THE DELIVERY OF APPLICATIONS WITHIN A VIRTUAL ENVIRONMENT ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020;33:US ~31:17/060,555 ~32:01/10/2020

2021/05609 ~ Complete ~54:BUS FAULT AREA DETERMINATION METHOD BASED ON POWER FREQUENCY POLARITY COMPARISON ~71:Sichuan University of Science & Engineering, 519 Huixing Road, Ziliujing District, Zigong, Sichuan, People's Republic of China ~72: Chen Lei;Dong Xingxing;Li Dong;Wu Hao;Yang Yiqiang~

2021/05613 ~ Complete ~54:BASE DILUENT FOR PORCINE FROZEN SEMEN AND PREPARATION METHOD AND APPLICATION THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, NO.700 CHANGCHENG ROAD, People's Republic of China ~72: SONG, JUNLIN;ZHANG, GUOLIANG~

2021/05617 ~ Complete ~54:CONSTRUCTION PROCESS OF LONG AUGER DRILLING AND GROUTING PILE IN ANHYDROUS THICK SAND GRAVEL STRATUM ~71:Beijing Building Material Geotechnical Engineering Corporation, 4th Floor, Block A, Juanshitiandi Building, No. 50-1, Wangjing West Road, Chaoyang District, People's Republic of China;Beijing Urban Construction Science Technology Promoting Association, Room 1010, Beijing Jianshe Building, No. 5, Guanglian Road, Xicheng District, People's Republic of China;GNBM Geological Engineering Exploration Academy Co., Ltd., 5th Floor, Block A, Juanshitiandi Building, No. 50-1, Wangjing West Road, Chaoyang District, People's Republic of China ~72: CHEN, Hui;GUO, Dangsheng;HE, Shiming;HUANG, Xinfeng;LI, Jiang;LIANG, Chenghua;YANG, Fengchen;YU, Hekun;ZHOU, Yucheng~

2021/05627 ~ Complete ~54:PANEL AND FLOOR COVERING COMPRISING THE SAME ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: PERRA, Antonio Giuseppe~

2021/05634 ~ Complete ~54:PANEL AND COVERING COMPRISING THE SAME ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: PERRA, Antonio Giuseppe~

2021/05635 ~ Complete ~54:UPPER AND METHOD FOR THE MANUFACTURE OF AN UPPER ~71:Lonati S.p.A., Via Francesco Lonati, 3, BRESCIA 25124, ITALY, Italy ~72: LONATI, Ettore;LONATI, Fausto;LONATI, Francesco~ 33:IT ~31:102019000007821 ~32:03/06/2019

2021/05590 ~ Provisional ~54:A RECEPTACLE FOR WASHING ~71:VAN DER MERWE, Nicolaas, Johannes, 235 VONKPROP ROAD, WALTLOO, 0184, SOUTH AFRICA, South Africa ~72: VAN NIEKERK, Andre, Louis~

2021/05596 ~ Complete ~54:DATA PROCESSING SYSTEM AND METHOD ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020;33:US ~31:17/060,459 ~32:01/10/2020

2021/05598 ~ Complete ~54:SYSTEM AND METHOD FOR VIRTUALLY BROADCASTING FROM WITHIN A VIRTUAL ENVIRONMENT ~71:TMRW FOUNDATION IP SARL, 14-16, Avenue Pasteur, Luxembourg ~72: YERLI, Cevat~ 33:US ~31:17/006,327 ~32:28/08/2020;33:US ~31:17/060,516 ~32:01/10/2020

2021/05611 ~ Complete ~54:A CROSS-INDUSTRY ACCOUNTING DATA PROCESSING METHOD AND SYSTEM ~71:Hunan University of Technology and Business, No.569 Yuelu Avenue, Changsha, Hunan, People's Republic of China ~72: Li Wenming;Ma Beiling;Qiu Qianli~

2021/05614 ~ Complete ~54:METHOD FOR MAKING HYDROPHOBICALLY MODIFIED XANTHAN GUM SOLUTION AND APPLICATION THEREOF ~71:Jiangnan University, No. 1800, Lihu Avenue, Wuxi, Jiangshu, 214122, People's Republic of China ~72: Caihua Ni;Gang Wang;Liping Zhang;Xinxin Sang~ 33:CN ~31:202011319250.3 ~32:23/11/2020

2021/05631 ~ Complete ~54:FATS, OIL AND GREASE COLLECTION ~71:ECO CLARITY LTD., Office 123, 210 Upper Richmond Road, London SW15 6NP, UNITED KINGDOM, United Kingdom ~72: CLEMES, Christopher Charles~ 33:ZA ~31:2018/04718 ~32:16/01/2019

2021/05633 ~ Complete ~54:THERAPEUTIC USES OF RELACORILANT, A HETEROARYL-KETONE FUSED AZADECALIN GLUCOCORTICOID RECEPTOR MODULATOR ~71:CORCEPT THERAPEUTICS INCORPORATED, 149 Commonwealth Drive, United States of America ~72: MORAITIS, Andreas~ 33:US ~31:62/809,327 ~32:22/02/2019;33:US ~31:62/814,441 ~32:06/03/2019;33:US ~31:62/833,517 ~32:12/04/2019

2021/05650 ~ Complete ~54:COMPUTER IMPLEMENTED METHOD AND SYSTEM FOR PSEUDO-RANDOM DATA GENERATION ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;WRIGHT, Craig Steven~ 33:GB ~31:1901893.6 ~32:11/02/2019

- APPLIED ON 2021/08/11 -

2021/05667 ~ Provisional ~54:MACHINE WITH TOROIDALLY WOUND SEGMENTED STATOR CORE ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2021/05672 ~ Complete ~54:SEED DELIVERY APPARATUS, SYSTEMS, AND METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: RADTKE, Ian;SWANSON, Todd~ 33:US ~31:62/192,309 ~32:14/07/2015

2021/05674 ~ Complete ~54:LABORATORY TEST AND APPLICATION OF A SINGLE-SIDE ANNULAR SLIT SHAPED POLYENERGY GRAIN ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan, Anhui, People's Republic of China ~72: Cui Zhibin;Wang Haibo;Wang Mengxiang~

2021/05677 ~ Complete ~54:LOBED TRACK PIN ~71:CATERPILLAR INC., 510 Lake Cook Road Suite 100, Deerfield, Illinois, 60015, United States of America ~72: TIMOTHY A MCKINLEY;WEIXUE TIAN;WILLIAM H BAAR III;ZHIYONG HU~ 33:US ~31:15/633,081 ~32:26/06/2017

2021/05673 ~ Complete ~54:DEVICE FOR ENRICHING USEFUL ELEMENTS IN FLUID AT HYDROTHERMAL VENT ~71:Institute of Oceanology, Chinese Academy of Sciences, 7 Nanhai Road, Shinan District, Qingdao, Shandong, People's Republic of China ~72: Qi Haiyan;Yin Xuebo;Zeng Zhigang~

2021/05675 ~ Complete ~54:INFRARED TEMPERATURE MEASURING DEVICE FOR SUBMARINE VENT FLUIDS BASED ON ROV OPERATION ~71:Institute of Oceanology, Chinese Academy of Sciences, No. 7 Nanhai Road, Shinan District, Qingdao, Shandong, People's Republic of China ~72: Qi Haiyan;Yin Xuebo;Zeng Zhigang~

2021/05684 ~ Complete ~54:METHOD OF DETECTING LEAKAGE FROM A PIPELINE ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: JACOBSZ, Schalk Willem;JAHNKE, Sebastian~ 33:ZA ~31:2019/01045 ~32:19/02/2019

2021/05692 ~ Complete ~54:NON-ACTIVE LIPID NANOPARTICLES WITH NON-VIRAL, CAPSID FREE DNA ~71:Generation Bio Co., 301 Binney Street, 4th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: MANGANIELLO, Matthew;STANTON, Matthew G.~ 33:US ~31:62/814,460 ~32:06/03/2019;33:US ~31:62/857,557 ~32:05/06/2019

2021/05696 ~ Complete ~54:SYNERGISTIC COMPOSITION WITH ANTI-PROLIFERATIVE ACTIVITY ~71:SHASHVI REMEDIES (OPC) PRIVATE LIMITED, Sri Radha Parthasarathi, A – 1801, Mahaavir Heritage, Plot No. 3, Sector 35G, Kharghar, India ~72: BANSAL, Ashvany Kumar~ 33:IN ~31:201921006145 ~32:15/02/2019

2021/05697 ~ Complete ~54:VIEWING OPTIC WITH ROUND COUNTER SYSTEM ~71:SHELTERED WINGS d/b/a VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: BOLLIG, Garrison;CARLSON, Andy;CODY, Tom;HAMILTON, Sam;HAVENS, Calen;IAN, Klemm;LAUFENBERG, Nicholas;LEWIS, Alexander;LOWRY, William;SCHULTZ, Craig~ 33:US ~31:62/794,065 ~32:18/01/2019;33:US ~31:62/794,233 ~32:18/01/2019

2021/05680 ~ Complete ~54:USER EQUIPMENT AND SYSTEM PERFORMING TRANSMISSION AND RECEPTION OPERATIONS ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 20000 MARINER AVENUE, SUITE 200, TORRANCE, CA 90503, USA, United States of America ~72: BHAMRI, Ankit;LI, Hongchao;SUZUKI, Hidetoshi;YAMAMOTO, Tetsuya~ 33:EP ~31:19000087.7 ~32:14/02/2019

2021/05685 ~ Complete ~54:METHODS AND COMPONENTS FOR PRODUCING CHILD RESISTANT GLASS CONTAINERS ~71:CR PACKAGING LLC, 500 Lincoln Street Allston, United States of America ~72: CLARK, Jeffrey;GONZALEZ, Alexander;HAYES, Matthew;KNOBEL, Simon~ 33:US ~31:62/802,381 ~32:07/02/2019;33:US ~31:62/825,976 ~32:29/03/2019;33:US ~31:62/839,326 ~32:26/04/2019

2021/05686 ~ Complete ~54:CHILD RESISTANT GLASS CONTAINER ~71:CR PACKAGING LLC, 500 Lincoln Street Allston, United States of America ~72: CLARK, Jeffrey;GONZALEZ, Alexander;HAYES, Matthew;KNOBEL, Simon~ 33:US ~31:62/802,381 ~32:07/02/2019;33:US ~31:62/825,976 ~32:29/03/2019;33:US ~31:62/849,593 ~32:17/05/2019;33:US ~31:62/896,954 ~32:06/09/2019

2021/05689 ~ Complete ~54:CANCER TREATMENT ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: AVADHANI, Anjali Narayan;DE PORRE, Peter Marie Z.;O'HAGAN, Anne Elizabeth~ 33:EP ~31:19156806.2 ~32:12/02/2019;33:EP ~31:19176575.9 ~32:24/05/2019

2021/05693 ~ Complete ~54:LIGHTING DEVICES FOR HANDHELD SURGICAL INSTRUMENTS, HOLSTERS FOR SURGICAL INSTRUMENTS WITH LIGHTING DEVICES AND KITS CONTAINING SURGICAL INSTRUMENTS AND LIGHTING DEVICES ~71:Pathy Medical, LLC, 1000 Bridgeport Avenue, Suite 400, SHELTON 06484, CT, USA, United States of America ~72: KLEYMAN, Gennady;PATHY, Vinod V.;SILVER, Mikiya~ 33:US ~31:62/824,565 ~32:27/03/2019;33:US ~31:16/823,500 ~32:19/03/2020

2021/05694 ~ Complete ~54:THIENO[3,2-B] PYRROLE[3,2-D]PYRIDAZINONE DERIVATIVES AND THEIR USE AS PKM2 DERIVATIVES FOR THE TREATMENT OF CANCER, OBESITY AND DIABETES RELATED DISORDERS ~71:Agios Pharmaceuticals, Inc., 88 Sidney Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: JI, Jingjing;LIU, Tao;SUI, Zhihua~ 33:US ~31:62/805,040 ~32:13/02/2019

2021/05681 ~ Complete ~54:DRY PHARMACEUTICAL FORMULATIONS OF CNP CONJUGATES ~71:ASCENDIS PHARMA GROWTH DISORDERS A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: HEINIG, Stefan;HERSEL, Ulrich;PINHOLT, Charlotte;SKANDS, Anja R.H~ 33:EP ~31:19156488.9 ~32:11/02/2019

2021/05683 ~ Complete ~54:TREATMENT OF AL AMYLOIDOSIS WITH THE COMBINATION OF MONOCLONAL ANTIBODIES AGAINST IMMUNOGLOBULIN LIGHT CHAINS AND THE CD38 CELL MEMBRANE MOLECULE ON ANTIBODY-PRODUCING AND OTHER IMMUNE CELLS ~71:PROTHENA BIOSCIENCES LIMITED, 77 Sir John Rogerson's Quay, Block C, Grand Canal Docklands, Ireland;TUFTS MEDICAL CENTER, INC., 800 Washington Street, Boston, Massachusetts, United States of America ~72: ASHTON, Nina, Mercedes;COMENZO, Raymond;ZAGO, Wagner~ 33:US ~31:62/804,721 ~32:12/02/2019

2021/05688 ~ Complete ~54:3-CARBONYLAMINO-5-CYCLOPENTYL-1 FI-PYRAZOLE COMPOUNDS HAVING INHIBITORY ACTIVITY ON CDK2 ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: BEHENNA, Douglas Carl;FREEMAN-COOK, Kevin Daniel;HOFFMAN, Robert Louis;NAGATA, Asako;NINKOVIC, Sacha;SUTTON, Scott Channing~ 33:US ~31:62/799,455 ~32:31/01/2019;33:US ~31:62/959,042 ~32:09/01/2020

2021/05812 ~ Provisional ~54:BILLY SKY ~71:SOLLY BILLY ZUNGA, 30459 EXTENSION 11,MPHUTHI AVENUE,MAMELODI EAST, South Africa ~72: SOLLY BILLY ZUNGA~

2021/05676 ~ Complete ~54:ANTI-TREM2 ANTIBODIES AND RELATED METHODS ~71:PIONYR IMMUNOTHERAPEUTICS, INC., 2 Tower P1, Suite 800, South San Francisco, United States of America ~72: PAL, Aritra;PRESTA, Leonard G.;SRIRAM, Venkataraman;STREULI, Michel~ 33:US ~31:62/597,827 ~32:12/12/2017;33:US ~31:62/648,089 ~32:26/03/2018

2021/05687 ~ Complete ~54:AN ELECTRIC POWER MACHINE WITH A ROTOR MEMBER COMPRISING MAGNETITE ~71:The Trustees for the time being of the KMN FULFILMENT TRUST, 8 Kestrel Street, Ebotse Golf Estate, Rynfield, BENONI 1504, SOUTH AFRICA, South Africa ~72: MAKGERU, Kabu Walter~ 33:ZA ~31:2019/01956 ~32:29/03/2019

2021/05695 ~ Complete ~54:LYM-1 AND LYM-2 ANTIBODY COMPOSITIONS AND IMPROVED CAR CONSTRUCTS ~71:University of Southern California, 1150 South Olive Street, Suite 2300, LOS ANGELES 90015, CA, USA, United States of America ~72: EPSTEIN, Alan L.;HU, Peisheng;ZHENG, Long~ 33:US ~31:62/806,632 ~32:15/02/2019;33:US ~31:62/815,961 ~32:08/03/2019;33:US ~31:62/924,151 ~32:21/10/2019

2021/05700 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO CONVEYORS ~71:TRACK STRAIGHT PTY LTD, C/- Connolly & Assoc, 25 Prowse Street, Australia ~72: WATERS, Darren~ 33:AU ~31:2019900121 ~32:15/01/2019

2021/05679 ~ Complete ~54:FLAX THRESHER CAPABLE OF AUTOMATICALLY DISCHARGING IMPURITIES ~71:INSTITUTE OF SUBTROPICAL AGRICULTURE, CHINESE ACADEMY OF SCIENCES, No. 644, Yuanda 2nd Road, Furong District, People's Republic of China;ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), No. 508, Cunwang Village, Wangcun, Youhu Line, Linpu Town, People's Republic of China ~72: AN, Xia;CHEN, Changli;HUANG, Daoyou;JIN, Guanrong;LI, Wenlue;LIU, Tingting;LUO, Xiahong;ZHU, Guanlin;ZHU, Qihong~

2021/05690 ~ Complete ~54:COMBINATION OF SILICON AND MAGNESIUM FOR THE PREVENTION AND TREATMENT OF MUSCLE CRAMPS ~71:Bio Minerals N.V., Zenderstraat 12, DESTELBERGEN 9070, BELGIUM, Belgium ~72: COOLSAET, Boudewijn Louis René André;VAN VOOREN, Christianne Augusta Adolf~ 33:EP ~31:19157526.5 ~32:15/02/2019

2021/05698 ~ Complete ~54:NEW N-BENZYL-2-PHENOXYBENZAMIDE DERIVATIVES AS PROSTAGLANDIN E2 (PGE2) RECEPTORS MODULATORS ~71:MEDIBIOFARMA, S.L., Plaza CEIN, Polígono Industrial Mocholí, Nave B-2, 31110 Noaín, Navarra, Spain ~72: IRENE VELILLA MARTÍNEZ;JUAN CAMACHO GÓMEZ;JULIO CASTRO PALOMINO LARIA;RODOLFO RODRÍGUEZ IGLESIAS~ 33:EP ~31:19382088.3 ~32:08/02/2019

2021/05699 ~ Complete ~54:SMART DEVICE FOR PROMOTING PRODUCTS ON A SHELF ~71:TOKINOMO MARKETING SA, Str. Despot Voda 42-44, et. 4, ap. 11, sector 2, Romania ~72: VLAD CLUVE, Mircea Ioan~ 33:RO ~31:a 2019 00056 ~32:01/02/2019

2021/05670 ~ Provisional ~54:HEADER ADVANCED PROTECTION ~71:Mark Lentin, 21 Schiphol, 36 6th Road, South Africa ~72: Mark Lentin~ 33:ZA ~31:2021/04271 ~32:23/06/2021

2021/05682 ~ Complete ~54:METHODS, APPARATUS AND DEVICE-READABLE MEDIUMS FOR DETECTING CHANGES IN DISTANCE BETWEEN WIRELESS DEVICES ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: DWIVEDI, Satyam;LOPEZ, Miguel;SUNDMAN, Dennis~

2021/05691 ~ Complete ~54:ARRANGEMENT FOR COLLECTION OF HOT GAS FROM AN ELECTROLYSIS PROCESS, AND A METHOD FOR SUCH GAS COLLECTION ~71:Norsk Hydro ASA, OSLO N-0240, NORWAY, Norway ~72: DYRØY, Are;KARLSEN, Morten;MANGER, Eirik;SEGATZ, Martin;WEDERSHOVEN, Elmar~ 33:NO ~31:20190343 ~32:14/03/2019

2021/05668 ~ Provisional ~54:COLLAPSIBLE PLASTIC PALLET ~71:AMPALLET (PTY) LTD., cnr. Nywerheid and Evergreen Streets, Tunney Township, ELANDSFONTEIN, Johannesburg 1429, Gauteng, SOUTH AFRICA, South Africa ~72: ZULBERG, Trevor~

2021/05669 ~ Provisional ~54:LIVE VIRTUAL TOURISM NETWORK ~71:Munashe L. Makado, 32 Prestwich Street, South Africa ~72: Munashe L. Makado~

2021/05678 ~ Complete ~54:ROTARY TELEHANDLER WITH MULTIPLE ASCENT AND DESCENT PATHS ~71:MANITOU ITALIA S.R.L., via Cristoforo Colombo, 2 Località Cavazzona, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102020000021244 ~32:08/09/2020

- APPLIED ON 2021/08/12 -

2021/05706 ~ Complete ~54:PRIMER AND PROBE AND KIT FOR FLUORESCENCE QUANTITATIVE PCR OF NUCLEIC ACID IN HUMAN MACROPHAGE ~71:Nanjing First Hospital, No.68 Changle Road, Qinhuai District, Nanjing, Jiangsu, People's Republic of China ~72: Chen Shaoliang;Sun Chongxiu;Sun Xuan;Xiong Jing;Zhang Daimin;Zhao Liangping~

2021/05712 ~ Complete ~54:HALOGEN-CONTAINING COMPOUND AND USE THEREOF AS CATALYST LIGAND IN ETHYLENE OLIGOMERIZATION ~71:BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, No.14, Beisanhuan East Road, Chaoyang District, People's Republic of China;CHINA PETROLEUM & CHEMICAL CORPORATION, No. 22 Chaoyangmen North Street, Chaoyang District, People's Republic of China ~72: Feng PAN;Hongfei WU;Jun LIU;Ke XU;Mingfang ZHENG;Songshuang HU;Tonglin LI;Xiaoqing WANG~ 33:CN ~31:201910036068.8 ~32:15/01/2019;33:CN ~31:201910037044.4 ~32:15/01/2019

2021/05731 ~ Complete ~54:CAPILLARY COLLECTOR WITH ROTATABLE CONNECTION ~71:Becton, Dickinson and Company, 1 Becton Drive, FRANKLIN LAKES 07417, NJ, USA, United States of America ~72: BOKKA SRINIVASA RAO, Kishore K.;EDELHAUSER, Adam;IVOSEVIC, Milan;TORRIS, Anthony V.;YAKHNICH, Vlad~ 33:US ~31:62/805,398 ~32:14/02/2019

2021/05704 ~ Complete ~54:PAPER-BASED MATERIAL SURFACE COATING AGENT, WRAPPING PAPER AND PREPARATION METHOD THEREOF ~71:Qilu University of Technology, No.3501, Daxue Road, Changqing District, Jinan, Shandong Province, People's Republic of China ~72: Wu Qin~

2021/05725 ~ Complete ~54:A MARINE OUTBOARD MOTOR WITH DRIVE SHAFT AND COOLING SYSTEM ~71:COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: JAMES BARRATT~ 33:GB ~31:1903086.5 ~32:07/03/2019

2021/05709 ~ Complete ~54:PREHEATING KILN SYSTEM ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: HAIMI, Timo;LEHTOVIRTA, Jussi;PEKKALA, Olli;RÄSÄNEN, Niko~

2021/05718 ~ Complete ~54:NOVEL COMPOSITION ~71:RECKITT BENCKISER HEALTH LIMITED, 103-105 Bath Road, Slough, United Kingdom ~72: BROWN, Fraser William Hanson;;HALL, Steven Scott;MIRFATTAHI, Rouzbeh;SON, Delphine Bérengère~ 33:GB ~31:1901876.1 ~32:11/02/2019;33:GB ~31:1902257.3 ~32:19/02/2019

2021/05723 ~ Complete ~54:A MARINE OUTBOARD MOTOR WITH A TRANSMISSION LUBRICATION SYSTEM AND LUBRICANT FILTER ~71:COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: JAMES BARRATT~ 33:GB ~31:1903073.3 ~32:07/03/2019

2021/05708 ~ Complete ~54:ERBB/BTK INHIBITORS ~71:Dizal (Jiangsu) Pharmaceutical Co., Ltd, No. 199 Liangjing Road, Zhangjiang Hi-Tech Park, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Xiang;LI, Zhengtao;LIU, Wengeng;SHEN, Changmao;TSUI, Honchung;WANG, Rumin;YANG, Zhenfan;ZHANG, Xiaolin;ZHU, Wei;ZOU, Hao~ 33:IB ~31:2018/074791 ~32:31/01/2018;33:IB ~31:2018/118569 ~32:30/11/2018

2021/05729 ~ Complete ~54:PENTACYCLIC HETEROCYCLIC COMPOUND ~71:Eisai R&D Management Co., Ltd., 4-6-10 Koishikawa, BUNKYO-KU 112-8088, TOKYO, JAPAN, Japan ~72: HAGIWARA, Koji;HARADA, Takaaki;HIROTA, Shinsuke;HOSHIKAWA, Tamaki;KOBAYASHI, Yoshihisa;NORIMINE, Yoshihiko;OHASHI, Yoshiaki;SATO, Nobuhiro;SATO, Nobuaki;YOSHIDA, Yu;YOSHIMURA, Hikaru~ 33:JP ~31:2019-039351 ~32:05/03/2019

2021/05813 ~ Provisional ~54:MINNI BRAAI/COOKER ~71:CLIFTON AUBREY VAN DER HOVEN, P.O BOX 31191, South Africa ~72: CLIFTON AUBREY VAN DER HOVEN~

2021/05732 ~ Complete ~54:METHODS AND SYSTEMS FOR PREDICTING RISK OF OBSERVABLE DAMAGE IN WIND TURBINE GEARBOX COMPONENTS ~71:ACCIONA ENERGIA, S.A., Avda. Ciudad de la Innovación No. 5, Spain;SENTIENT SCIENCE CORPORATION, 672 Delaware Avenue, United States of America ~72: AUER, Gunther;BOLANDER, Nathan;IRIARTE, Enrique;IRUJO, Mercedes;KUMAR, Vijayant;ZALACAIN, Iñigo~ 33:US ~31:62/786,817 ~32:31/12/2018

2021/05727 ~ Complete ~54:MARINE MOTOR WITH A DUAL-FLOW EXHAUST GAS RECIRCULATION SYSTEM ~71:COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: ANOOP SELVARAJ;RICHARD CORNWELL~ 33:GB ~31:1903078.2 ~32:07/03/2019

2021/05707 ~ Complete ~54:GRANT-FREE UPLINK TRANSMISSIONS ~71:IDAC HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: AHMAD REZA HEDAYAT;OGHENEKOME OTERI;SHAHROKH NAYEB NAZAR~ 33:US ~31:62/586,473 ~32:15/11/2017

2021/05715 ~ Complete ~54:ASSEMBLY FOR GRANULATING EXTRUDED MATERIAL ~71:EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M.B.H., Freindorf, Unterfeldstrasse 3, Austria ~72: Christian WAGNER;Klaus FEICHTINGER;Michael AIGNER;Roland HUBER~ 33:AT ~31:A 50329/2019 ~32:11/04/2019

2021/05716 ~ Complete ~54:DEVICE FOR COOLING PARTICULATE MATERIALS ~71:EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M.B.H., Freindorf, Unterfeldstrasse 3, Austria ~72: Christian WAGNER;Klaus FEICHTINGER;Michael AIGNER;Roland HUBER~ 33:AT ~31:A50334/2019 ~32:12/04/2019

2021/05720 ~ Complete ~54:DECODER AND DECODING METHOD FOR LC3 CONCEALMENT INCLUDING FULL FRAME LOSS CONCEALMENT AND PARTIAL FRAME LOSS CONCEALMENT ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BÜTHE, Jan;BENNDORF, Conrad;DIETZ, Martin;SCHLEGEL, Maximilian;SCHNELL, Markus;SPERSCHNEIDER, Ralph;TOMASEK, Adrian~ 33:EP ~31:19156997.9 ~32:13/02/2019;33:EP ~31:19157036.5 ~32:13/02/2019;33:EP ~31:19157042.3 ~32:13/02/2019;33:EP ~31:19157047.2 ~32:13/02/2019;33:WO ~31:PCT/EP2019/065172 ~32:11/06/2019;33:WO ~31:PCT/EP2019/065205 ~32:11/06/2019;33:WO ~31:PCT/EP2019/065209 ~32:11/06/2019

2021/05701 ~ Provisional ~54:GLUTARALDEHYDE NON-IONIC SURFACTANT COMPOSITIONS USED AS VIRUCIDES ~71:MARTIN, Antonietta Pamela, Unit 8, Protea Retirement Village, 26 Totius Road, Amorosa, South Africa ~72: MARTIN, Antonietta Pamela~

2021/05717 ~ Complete ~54:CRYSTALLINE FORM OF AN AVIBACTAM DERIVATIVE ~71:ARIXA PHARMACEUTICALS, INC., 235 East 42nd Street, New York, NY, United States of America ~72: KARABORNI, Sami~ 33:US ~31:62/817,243 ~32:12/03/2019

2021/05757 ~ Complete ~54:MODULAR PANEL SYSTEM ~71:JOHANNES PETRUS GEORGE GRAAFF, Ireland Hill 28, 84 Ireland Ave, Eldoraigne, South Africa ~72: GRAAFF, Johannes Petrus George~

2021/05705 ~ Complete ~54:NEW METHOD FOR BREEDING ABALONE SPAT ~71:Dalian Ocean University, No. 52 Heishijiao Street, Shahekou District, Dalian, Liaoning, People's Republic of China;Dandong Zheng Run Food Co., Ltd, Shengli neighborhood committee 3 group, Jianghai Office, Border Economic Cooperation Zone,

Dandong, Liaoning, People's Republic of China; Qingdao Agricultural University, No. 700 Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China; XinYuLong Marine Organisms Seed industry technology co., LTD, No. 2 Baoshen Park, Pikou Street, Pulandian District, Dalian, Liaoning, People's Republic of China ~72: Li Chunye; Li Shuangshuang; Liu Bo; Su Yanming; Wang Chunde; Zhao Yuming~

2021/05702 ~ Provisional ~54: MULTIPLE CUTTER ~71: Nkanyiso Xaba, S174 Road 7, South Africa ~72: Nkanyiso Xaba~

2021/05713 ~ Complete ~54: DRAIN PIPE CONNECTOR SYSTEM ~71: PHYSICLEAN LTD., 25 Sderat Paz, Kiryat Gat, 8201838, Israel ~72: Nir NAHUM~ 33:US ~31:62/790,028 ~32:09/01/2019

2021/05710 ~ Complete ~54: LOW-TEMPERATURE-FIRED STANNATE MICROWAVE DIELECTRIC CERAMIC HAVING HIGH TEMPERATURE STABILITY AND PREPARATION METHOD THEREOF ~71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: CHENG, Qing; FU, Zhifen; LI, Can; LI, Chang; MA, Jianli; YANG, Zhongyi~ 33:CN ~31:2021106327271 ~32:07/06/2021

2021/05711 ~ Complete ~54: HEIGHT ADJUSTMENT SPRINKLER GUARD ~71: UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: STOFFBERG, GERRIT HENDRIK~ 33:ZA ~31:2020/05034 ~32:14/08/2020

2021/05714 ~ Complete ~54: HALOGEN-CONTAINING COMPOUND AND USE THEREOF, CATALYST COMPOSITION, AND ETHYLENE OLIGOMERIZATION, TRIMERIZATION AND TETRAMERIZATION METHODS ~71: BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, No. 14, Beisanhuan East Road, Chaoyang District, People's Republic of China; CHINA PETROLEUM & CHEMICAL CORPORATION, No. 22 Chaoyangmen North Street, Chaoyang District, People's Republic of China ~72: Feng PAN; Hongfei WU; Jun LIU; Ke XU; Mingfang ZHENG; Songshuang HU; Tonglin LI; Xiaoqing WANG~ 33:CN ~31:201910036065.4 ~32:15/01/2019; 33:CN ~31:201910036068.8 ~32:15/01/2019; 33:CN ~31:201910037040.6 ~32:15/01/2019

2021/05724 ~ Complete ~54: MARINE OUTBOARD MOTOR WITH SHIFT MECHANISM ~71: COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: JAMES BARRATT~ 33:GB ~31:1903092.3 ~32:07/03/2019

2021/05728 ~ Complete ~54: METHOD FOR HYDROPHILICIZING A SEMIFINISHED ELEMENT, AND ELECTRODE ELEMENT, BIPOLAR ELEMENT OR HEAT EXCHANGER ELEMENT PRODUCED THEREBY ~71: Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V., Hansastrasse 27c, MÜNCHEN 80686, GERMANY, Germany ~72: BURFEIND, Jens; DOETSCH, Christian; GREVÉ, Anna; KOPIETZ, Lukas; SCHWERDT, Peter~ 33:DE ~31:10 2019 103 542.2 ~32:13/02/2019

2021/05703 ~ Provisional ~54: GLUTARALDEHYDE, POLYMER AND POTASSIUM BUFFER COMPOSITIONS USED AS VIRUCIDES ~71: MARTIN, Antonietta Pamela, Unit 8, Protea Retirement Village, 26 Totius Road, Amorosa, South Africa ~72: MARTIN, Antonietta Pamela~

2021/05719 ~ Complete ~54: DECODER AND DECODING METHOD SELECTING AN ERROR CONCEALMENT MODE, AND ENCODER AND ENCODING METHOD ~71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BÜTHE, Jan; BENNDORF, Conrad; DIETZ, Martin; SCHLEGEL, Maximilian; SCHNELL, Markus; SPERSCHNEIDER, Ralph; TOMASEK, Adrian~ 33:EP ~31:19156997.9 ~32:13/02/2019; 33:EP ~31:19157036.5 ~32:13/02/2019; 33:EP ~31:19157042.3 ~32:13/02/2019; 33:EP ~31:19157047.2 ~32:13/02/2019; 33:WO

~31:PCT/EP2019/065172 ~32:11/06/2019;33:WO ~31:PCT/EP2019/065205 ~32:11/06/2019;33:WO
~31:PCT/EP2019/065209 ~32:11/06/2019

2021/05722 ~ Complete ~54:AUDIO TRANSMITTER PROCESSOR, AUDIO RECEIVER PROCESSOR AND RELATED METHODS AND COMPUTER PROGRAMS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BÜTHE, Jan;LUTZKY, Manfred;SPERSCHNEIDER, Ralph;TOMASEK, Adrian;TSCHEKALINSKI, Alexander~ 33:EP ~31:19156997.9 ~32:13/02/2019;33:EP ~31:19157036.5 ~32:13/02/2019;33:EP ~31:19157042.3 ~32:13/02/2019;33:EP ~31:19157047.2 ~32:13/02/2019;33:WO ~31:PCT/EP2019/065172 ~32:11/06/2019;33:WO ~31:PCT/EP2019/065205 ~32:11/06/2019;33:WO ~31:PCT/EP2019/065209 ~32:11/06/2019

2021/05726 ~ Complete ~54:MARINE OUTBOARD MOTOR WITH VALVE TRAIN HAVING ADJUSTABLE LASH ~71:COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: ADAM LAYCOCK~ 33:GB ~31:1903076.6 ~32:07/03/2019

2021/05721 ~ Complete ~54:MULTI-MODE CHANNEL CODING WITH MODE SPECIFIC COLORATION SEQUENCES ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BÜTHE, Jan;BENNDORF, Conrad;LUTZKY, Manfred;SCHLEGEL, Maximilian;SCHNELL, Markus~ 33:EP ~31:19156997.9 ~32:13/02/2019;33:EP ~31:19157036.5 ~32:13/02/2019;33:EP ~31:19157042.3 ~32:13/02/2019;33:EP ~31:19157047.2 ~32:13/02/2019;33:WO ~31:PCT/EP2019/065172 ~32:11/06/2019;33:WO ~31:PCT/EP2019/065205 ~32:11/06/2019;33:WO ~31:PCT/EP2019/065209 ~32:11/06/2019

2021/05730 ~ Complete ~54:PUMPING SYSTEM AND FLUID DELIVERY INSTALLATION ~71:BIGNON, Pierre, 155 Chemin CréveCoeur, SAINT PAUL 97460, FRANCE, France;BOUWER, Anton, 10 Allée de la source, TROIS BASSINS 97426, FRANCE, France;WAN-HOI, Armand, 5 rue des Margoses, SAINT PAUL 97460, FRANCE, France ~72: BIGNON, Pierre;BOUWER, Anton;WAN-HOI, Armand~

- APPLIED ON 2021/08/13 -

2021/05787 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR IMPLEMENTING TRANSFERS OVER A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;MACKAY, Alexander Tennyson;WRIGHT, Craig Steven~ 33:GB ~31:1902086.6 ~32:15/02/2019;33:GB ~31:1902088.2 ~32:15/02/2019;33:GB ~31:1902089.0 ~32:15/02/2019;33:GB ~31:1902090.8 ~32:15/02/2019;33:GB ~31:1902092.4 ~32:15/02/2019

2021/05768 ~ Provisional ~54:A ROLLER ASSEMBLY ~71:VESCONITE BEARINGS, 77 MIMETES ROAD, DENVER, JOHANNESBURG, 2094, SOUTH AFRICA, South Africa ~72: FOURIE, Petrus, Johannes;LEGER, Jean-Patrick;VAN WYK, Juan~

2021/05771 ~ Complete ~54:NOVEL ANTI-CLOGGING SLUDGE INCINERATION EQUIPMENT ~71:Yancheng Institute of Technology, No. 1 Xi-Wang-Da-Dao-Zhong-Lu, Yancheng, Jiangsu, People's Republic of China ~72: Dong Xiaohui;Ma Ruhong;Zhen Shucong~

2021/05767 ~ Provisional ~54:SELF INFLATING FLOATATION ASSISTANCE DEVICE ~71:ATLANTIS SPECIALIST TECHNOLOGIES PROPRIETARY LIMITED, 215 The Cliffs, Office Block 1, Niagara Road, Tygerfalls, Carl Cronje Drive, Bellville, 7536, SOUTH AFRICA, South Africa ~72: DUMONT, Terence Paul~

2021/05772 ~ Complete ~54:METHOD FOR DIAGNOSING DEFECTS OF RIGID TANK CHANNEL IN MINE VERTICAL SHAFT ~71:Anhui University of Science & Technology, 168 Taifeng Street, Tianjia District, Huainan, Anhui, People's Republic of China ~72: Du Fei;Hu Weikang;Lyu Yinghui;Ma Tianbing;Wang Xin;Zhang Zhihao~ 33:CN ~31:202110808171.7 ~32:16/07/2021

2021/05777 ~ Complete ~54:PALM ACTIVATED DRUG DELIVERY DEVICE ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: FOLEY, Nicholas;GLENCROSS, James;KRULEVITCH, Peter;OLSON, Lorin P.;WANG, Jingli;ZHAO, Mingqi~ 33:US ~31:61/252,378 ~32:16/10/2009;33:US ~31:61/361,983 ~32:07/07/2010

2021/05851 ~ Complete ~54:ELECTRONIC PHOTOGRAPHIC IMAGE FORMATION DEVICE, CARTRIDGE, AND DRUM UNIT ~71:CANON KABUSHIKI KAISHA, 30-2, Shimomaruko 3-chome, Ohta-ku, Japan ~72: FUKASAWA, Yu;KAWANAMI, Takeo;MORIOKA, Masanari~ 33:JP ~31:2019-050355 ~32:18/03/2019

2021/05785 ~ Complete ~54:USER EQUIPMENT AND SYSTEM PERFORMING TRANSMISSION AND RECEPTION OPERATIONS ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 20000 MARINER AVENUE, SUITE 200, TORRENCE, CA 90503, USA, United States of America ~72: BHAMRI, Ankit;LI, Hongchao;SHIBAIKE, Naoya;SUZUKI, Hidetoshi;YAMAMOTO, Tetsuya~ 33:EP ~31:19000087.7 ~32:14/02/2019;33:EP ~31:19167701.2 ~32:05/04/2019

2021/05796 ~ Complete ~54:WIRELESS POWER TRANSFER ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: STARING, Antonius Adriaan Maria~ 33:EP ~31:19152176.4 ~32:16/01/2019

2021/05773 ~ Complete ~54:NONLINEAR MULTI-DIRECTIONAL PIEZOELECTRIC ENERGY HARVESTING DEVICE AND ENERGY HARVESTING METHOD ~71:Anhui University of Science & Technology, No.168 Taifeng Street, Tianjia District, Huainan, Anhui, People's Republic of China ~72: Du Fei;Hu Weikang;Ma Tianbing;Sun Kaiheng;Wang Xin;Yin Liming;Zhang Zhihao~ 33:CN ~31:202110808165.1 ~32:16/07/2021

2021/05776 ~ Complete ~54:PALM ACTIVATED DRUG DELIVERY DEVICE ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: FOLEY, Nicholas;GLENCROSS, James;KRULEVITCH, Peter;OLSON, Lorin P.;WANG, Jingli;ZHAO, Mingqi~ 33:US ~31:61/252,378 ~32:16/10/2009;33:US ~31:61/361,983 ~32:07/07/2010

2021/05778 ~ Complete ~54:PALM ACTIVATED DRUG DELIVERY DEVICE ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: FOLEY, Nicholas;GLENCROSS, James;KRULEVITCH, Peter;OLSON, Lorin P.;WANG, Jingli;ZHAO, Mingqi~ 33:US ~31:61/252,378 ~32:16/10/2009;33:US ~31:61/361,983 ~32:07/07/2010

2021/05779 ~ Complete ~54:BIODEGRADABLE PLASTIC ~71:CSIR, Scientia, Meiring Naud Road, Brummeria, Pretoria, 0184, South Africa ~72: ASANDA MTIBE;OSEI OFOSU;RAJESH D ANANDJIWALA;SUDHAKAR MUNIYASAMY~ 33:GB ~31:1801978.6 ~32:07/02/2018

2021/05786 ~ Complete ~54:CARBON NANOTUBES AND METHOD OF PRODUCING CARBON NANOTUBES ~71:SabiNano (Pty) Ltd., 200 Malibongwe Drive, Randburg, JOHANNESBURG 2194, Gauteng, SOUTH AFRICA, South Africa ~72: MHLANGA, Sabelo Dalton;NXUMALO, Edward Ndumiso~ 33:ZA ~31:2019/00253 ~32:15/01/2019

2021/05801 ~ Complete ~54:IMPROVED ROD SEAL ASSEMBLIES FOR MACHINES WITH CROSSHEADS AND SEALED OSCILLATING RODS ~71:AZELIO AB, Lindholmsplatsen 1, 417 56, Goteborg, Sweden ~72: KE EDVINSSON;ANDREAS BAUMUELLER;ANDREAS VERNER;FRANCISCO XAVIER BORRAS;OLLE

SÄÄW;PER ESKILSSON~ 33:SE ~31:1950105-5 ~32:29/01/2019;33:SE ~31:1950106-3 ~32:29/01/2019

2021/05803 ~ Complete ~54:CATALYST STRUCTURE AND METHOD OF UPGRADING HYDROCARBONS IN THE PRESENCE OF THE CATALYST STRUCTURE ~71:KARA TECHNOLOGIES INC., 800 - 400 4th Ave SW , Calgary , Alberta, T2P 0L6, Canada ~72: BLAIR AIKEN;HUA SONG;PENG HE;SHIJUN MENG~ 33:US ~31:62/807,795 ~32:20/02/2019

2021/05802 ~ Complete ~54:METHOD AND PLANT FOR PACKAGING PRODUCTS, AND METHOD FOR OBTAINING A PLANT AND A CONTAINER ~71:BONDUELLE, La Woestyne, 59173, Renescure, France ~72: CHRISTIAN DUCEZ;LAURENT DUPONT;SÉBASTIEN SENECHAL~ 33:FR ~31:19 02077 ~32:28/02/2019

2021/05805 ~ Complete ~54:THIOENO[3,2-B] PYRIDIN-7-AMINE COMPOUNDS FOR TREATING FAMILIAL DYSAUTONOMIA ~71:PTC THERAPEUTICS, INC., 100 Corporate Court, South Plainfield, New Jersey, 07080, United States of America ~72: AMAL DAKKA;GARY MITCHELL KARP;JANA NARASIMHAN;JIASHI WANG;MICHAEL A ARNOLD;NANJING ZHANG;NIKOLAI A NARYSHKIN;TOM TUAN LUONG;XIAOYAN ZHANG~ 33:US ~31:62/805,283 ~32:13/02/2019

2021/05774 ~ Complete ~54:NOVEL MODULATORS OF THE 5-HYDROXYTRYPTAMINE RECEPTOR 7 AND THEIR METHOD OF USE ~71:PRAEVENTIX, LLC, 665 Stockton Drive, Suite 200H, United States of America;TEMPLE UNIVERSITY-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, Broad & Montgomery Avenue, United States of America ~72: BLASS, Benjamin E.;BLATTNER, Kevin M.;CANNEY, Daniel J.;PIPPIN, Douglas A.~ 33:US ~31:62/422,344 ~32:15/11/2016

2021/05795 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR IMPLEMENTING TRANSFERS OVER A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;MACKAY, Alexander Tennyson;WRIGHT, Craig Steven~ 33:GB ~31:1902086.6 ~32:15/02/2019;33:GB ~31:1902088.2 ~32:15/02/2019;33:GB ~31:1902089.0 ~32:15/02/2019;33:GB ~31:1902090.8 ~32:15/02/2019;33:GB ~31:1902092.4 ~32:15/02/2019

2021/05808 ~ Complete ~54:SECURE STORAGE ISOLATION ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BACHER, Utz;BRADBURY, Jonathan;BUSABA, Fadi;HELLER, Lisa Cranton~ 33:US ~31:16/296,345 ~32:08/03/2019

2021/05775 ~ Complete ~54:FLOATING BARRIER ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: BUCARIZZA, Vlado~ 33:ZA ~31:2020/05031 ~32:14/08/2020

2021/05790 ~ Complete ~54:LIVE ATTENUATED INFLUENZA VACCINE COMPOSITION AND PROCESS FOR PREPARATION THEREOF ~71:Serum Institute Of India Pvt Ltd., 212/2, Off Soli Poonawalla Road, Hadapsar, PUNE 411 028, MAHARASHTRA, INDIA, India ~72: ANASPURE, Yashodhan Dilip;DHERE, Rajeev Mhalasakant;GANGULY, Milan Shomenath;NARALE, Swapnil Prabhakar;SAGAR, Umesh Gorakh;TUPE, Sham Ramdas;TYAGI, Parikshit Dharampal;YEOLEKAR, Leena Ravindra~ 33:IN ~31:201921006071 ~32:15/02/2019

2021/05797 ~ Complete ~54:COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR DETERMINING OR VERIFYING LOCATION ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: JOSEPH, Daniel;WRIGHT, Craig Steven~ 33:GB ~31:1901391.1 ~32:01/02/2019

2021/05784 ~ Complete ~54:DEEP ULTRAVIOLET LIGHT-EMITTING DIODE ~71:SEOUL VIOSYS CO., LTD., 65-16, Sandan-ro 163 beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea ~72: KIM, Tae Gyun;LEE, Kyu Ho~ 33:KR ~31:10-2019-0004547 ~32:14/01/2019

2021/05799 ~ Complete ~54:CYCLIC MOLECULES AS BRUTON'S TYROSINE KINASE INHIBITOR ~71:Minghui Pharmaceutical (Hangzhou) Limited, Room 1-514, Heda Pharma Valley Center, No. 291 Fucheng Road, Xiasha Street, Hangzhou Economic and Technological Development Area, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China;Minghui Pharmaceutical (Shanghai) Limited, Suite 6305, Building 6, 338 Jialilue Road, China (Shanghai) Pilot Free Trade Zone, PUDONG NEW AREA 201203, SHANGHAI, CHINA (P.R.C.), People's Republic of China ~72: CAO, Guoqing;LI, Ao;WANG, Zhaoyin;YAO, Bing;YAO, Yuanshan~ 33:CN ~31:201910049183.9 ~32:18/01/2019

2021/05770 ~ Provisional ~54:DRILL STEEL COUPLING ~71:PETRUS HENDRIK ROODT, Plot 67, Michael Road, Oaktree, Krugersdorp, Gauteng, 1739, South Africa;ROBERT CHARLES GRADIDGE, 12 Kleim Street, Carletonville, 2499, South Africa ~72: PETRUS HENDRIK ROODT~

2021/05769 ~ Provisional ~54:LETLAPA ~71:Sydwell Mmutle, 17 Mercury court 744 Schoeman street 0083, South Africa ~72: Lehlologelo mello;Sydwell Mmutle;Tumelo Moloantoa~

2021/05781 ~ Complete ~54:INTRADIALYTIC USE OF SODIUM THIOSULFATE ~71:HOPE MEDICAL ENTERPRISES, INC. DBA HOPE PHARMACEUTICALS, 16416 N. 92nd Street #125, Scottsdale, Arizona, United States of America ~72: CRAIG SHERMAN~ 33:US ~31:62/468,871 ~32:08/03/2017

2021/05791 ~ Complete ~54:FCMR-BINDING MOLECULES AND USES THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: BRAY, Mark R.;BROKX, Richard;MASON, Jacqueline M.~ 33:US ~31:62/806,237 ~32:15/02/2019

2021/05794 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR IMPLEMENTING TRANSFERS OVER A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;MACKAY, Alexander Tennyson;WRIGHT, Craig Steven~ 33:GB ~31:1902086.6 ~32:15/02/2019;33:GB ~31:1902088.2 ~32:15/02/2019;33:GB ~31:1902089.0 ~32:15/02/2019;33:GB ~31:1902090.8 ~32:15/02/2019;33:GB ~31:1902092.4 ~32:15/02/2019

2021/05809 ~ Complete ~54:SECURE INTERFACE CONTROL HIGH-LEVEL PAGE MANAGEMENT ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BRADBURY, Jonathan;CARSTENS, Heiko;HELLER, Lisa;SCHWIDEFSKY, Martin~ 33:US ~31:16/296,457 ~32:08/03/2019

2021/05531 ~ Provisional ~54:MOVABLE AND MODULAR HOUSING STRUCTURE ~71:BLACK ROCK CONSTRUCTION (PTY) LTD., Portion 53 of Farm 51, Mantenga, Ezulwini, THE KINGDOM OF ESWATINI, Swaziland ~72: ROQUES, Joseph~

2021/05807 ~ Complete ~54:ELECTRONIC GRINDER ~71:TRI INNOVATIONS LLC, 1920 E. Hallandale Beach Blvd., PH7, Hallandale Beach, Florida, 33009, United States of America ~72: BENYAMIN ABEHASERA~ 33:US ~31:16/285,628 ~32:26/02/2019

2021/05798 ~ Complete ~54:ROASTING APPARATUS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BRIGANTE, Stuart;CECCAROLI,

Stefano;DUBIEF, Flavien;GUREVITCH-BEACOCK, Paul;JACCARD, Sandrine~ 33:EP ~31:19153660.6
~32:25/01/2019

2021/05780 ~ Complete ~54:BIODEGRADABLE PLASTIC ~71:CSIR, Scientia, Meiring Naudé Road, Brummeria, Pretoria, 0184, South Africa ~72: ASANDA MTIBE;OSEI OFOSU;RAJESH D ANANDJIWALA;SUDHAKAR MUNIYASAMY~ 33:GB ~31:1801978.6 ~32:07/02/2018

2021/05782 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING AZILSARTAN MEDOXOMIL OR COMBINATION THEREOF ~71:AUROBINDO PHARMA LIMITED, The Water Mark Building, Plot No.11, Survey No.9, Hitech City, Kondapur, Hyderabad 500 084, Telangana, India ~72: AMAN TAQUIUDDIN MOHAMMED;SARAVANAN KANNUSAMY;SIVAKUMARAN MEENAKSHISUNDERAM;SRI SANDHYA MANCHINA;VENKATA VIJAYA NARASIMHA KISHAN JAYANTHY~ 33:IN ~31:202041035039 ~32:14/08/2020

2021/05788 ~ Complete ~54:PROCESS FOR PRODUCING OPTICAL EFFECT LAYERS ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: DESPLAND, Claude-Alain;LOGINOV, Evgeny;MUELLER, Edgar;SCHMID, Mathieu~ 33:EP ~31:19151899.2 ~32:15/01/2019

2021/05789 ~ Complete ~54:CHARGE-BEARING CYCLODEXTRIN POLYMERIC MATERIALS AND METHODS OF MAKING AND USING SAME ~71:CycloPure, Inc., 171 Saxony Road, ENCINITAS 92024, CA, USA, United States of America ~72: BARIN, Gokhan;BROWN, Moira;LI, Shan;SPRUELL, Jason M.~ 33:US ~31:62/805,505 ~32:14/02/2019

2021/05792 ~ Complete ~54:METHOD FOR TRANSFERRING A BATCH PRODUCTION PROCESS TO A CONTINUOUS PRODUCTION PROCESS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BORCHERT, Sven-Oliver;BUDDE, Bastian;CLASSEN, Sven;DAVID, Laura;LENZ, Jürgen;LOBEDANN, Martin;MAISER, Benjamin;SCHWAN, Peter~ 33:EP ~31:19151756.4 ~32:15/01/2019

2021/05804 ~ Complete ~54:CONTAINER FOR GRINDING MATERIALS ~71:TRI INNOVATIONS LLC, 1920 E. Hallandale Beach Blvd., PH7, Hallandale Beach, Florida, 33009, United States of America ~72: BENYAMIN ABEHASERA~ 33:US ~31:16/285,678 ~32:26/02/2019

2021/05783 ~ Complete ~54:METHOD FOR PREPARING POLYOLS AND POLYURETHANE DAMPING FOAMS THEREOF BASED ON CRUDE GLYCERIN ~71:QILU UNIVERSITY OF TECHNOLOGY, No. 3501, Daxue Road, Changqing District, Shandong Province, People's Republic of China ~72: CAI, Xiaoxia;FANG, Guigan;JI, Xingxiang;LENG, Xuedong;LI, Cong;TIAN, Zhongjian;YAGN, Guihua;ZHANG, Fengshan~

2021/05793 ~ Complete ~54:BOOSTER CHARGE HOLDER FOR AN INITIATOR SYSTEM ~71:DynaEnergetics Europe GmbH, Kaiserstrasse 3, TROISDORF 53840, GERMANY, Germany ~72: BERGMANN, Joerg~ 33:US ~31:62/792,460 ~32:15/01/2019

2021/05800 ~ Complete ~54:FEEDING CAP, DRIVE HEAD, AND DRIVE SYSTEM ~71:ADVENTIA PHARMA, S.L., Viera y Clavijo 30, 2ª Planta E-35002 Las Palmas de Gran Canarias, Las Palmas, Spain;ANDRÉS CABELLO REY, Viera y Clavijo 30, 2ª Planta E-35002 Las Palmas de Gran Canarias, Las Palmas, Spain ~72: ANDRÉS CABELLO REY~ 33:ES ~31:PCT/ES2019/070028 ~32:22/01/2019

2021/05806 ~ Complete ~54:MULTIPLE EMULSION COMPRISING AN OIL CONTINUOUS NANOEMULSION AND A METHOD FOR USING THE SAME ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANJING LOU~ 33:EP ~31:19166593.4 ~32:01/04/2019

2021/05850 ~ Complete ~54:PROCESS FOR POLYSORBATE QUANTIFICATION IN A SAMPLE INVOLVING LC-MS WITH AN INTERNAL STANDARD ~71:SANOFI, 54 rue La Boétie, France ~72: GUIBAL, Pierre~ 33:EP ~31:19305232.1 ~32:27/02/2019

- APPLIED ON 2021/08/16 -

2021/05814 ~ Provisional ~54:ITSIKIRI ECCENTRIC BIKE ~71:Lungile Blessed Mtsweni, 21297 Mamelodi East, Rethabile, South Africa ~72: Lungile Blessed Mtsweni~

2021/05841 ~ Complete ~54:COMBINATON THERAPY WITH A DON PRODRUG AND AN IMMUNE CHECKPOINT INHIBITOR ~71:DRACEN PHARMACEUTICALS, INC., c/o HOGAN LOVELLS US LLP, 100 International Drive, Suite 2000, Baltimore, Maryland, 21202, United States of America ~72: ROBERT CHRISTIAN WILD;THOMAS ESTOK~ 33:US ~31:62/794,231 ~32:18/01/2019

2021/05844 ~ Complete ~54:ANTIGEN BINDING PROTEINS THAT BIND BCMA ~71:SORRENTO THERAPEUTICS, INC., 4955 Directors Place, San Diego, California, 92121, United States of America ~72: HEYUE ZHOU;XIA CAO~ 33:US ~31:62/810,771 ~32:26/02/2019;33:US ~31:62/811,431 ~32:27/02/2019

2021/05846 ~ Complete ~54:PROTEIN TYROSINE PHOSPHATASE INHIBITORS AND METHODS OF USE THEREOF ~71:ABBVIE INC., 1 North Waukegan Road, North Chicago, Illinois, 60064, United States of America;CALICO LIFE SCIENCES LLC, 1170 Veterans Blvd, South San Francisco, California, 94080, United States of America ~72: ANDREW BOGDAN;CHRISTINA BAUMGARTNER;CHRISTOS ECONOMOU;ELLIOT P FARNEY;ERIC VOIGHT;GEOFF T HALVORSEN;JASON ABBOTT;JENNIFER M FROST;MARK A MATULENKO;MATTHEW O'CONNOR;PHILIP R KYM;QINGWEI I ZHANG;REZA SHIROODI;STACY FOSU;ZHAOMING XIONG~ 33:US ~31:62/818,447 ~32:14/03/2019

2021/05820 ~ Provisional ~54:POSTHUTR ~71:Lazola Ngcwangu, PO Box 2012, Mogwase, South Africa ~72: Lazola Ngcwangu;Lazola Ngcwangu~

2021/05821 ~ Complete ~54:GIP/GLP1 CO-AGONIST COMPOUNDS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ABRAHAM, Milata Mary;ABURUB, Aktham;ALSINA-FERNANDEZ, Jorge;BROWN, Robert Andrew;CABRERA, Over;COSKUN, Tamer;CUMMINS, Robert Chadwick;DATTA-MANNAN, Amita;ELSAYED, Mohamed ElSayed Hamed;LAI, Xianyin;PATEL, Phenil Jayantilal;QU, Hongchang;SLOOP, Kyle Wynn;TRAN, Thi Thanh Huyen;WALLIS, James Lincoln;WILLARD, Francis Stafford~ 33:US ~31:62/702,072 ~32:23/07/2018;33:US ~31:62/730,563 ~32:13/09/2018;33:US ~31:62/740,596 ~32:03/10/2018

2021/05823 ~ Complete ~54:STORAGE BOARD ~71:ROHLAND MADE CC, Unit 19A, Laserdowns Industrial Park, Corner Johan and Brigatyn Street, Laserpark, South Africa ~72: ROHLAND, Charles John Max~ 33:ZA ~31:2020/05131 ~32:19/08/2020

2021/05836 ~ Complete ~54:COSMETIC COMPOSITION ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: HUMEAU, Anne;REYNAUD, Romain;SCANDOLERA, Amandine~ 33:GB ~31:1902796.0 ~32:01/03/2019;33:GB ~31:1903151.7 ~32:08/03/2019

2021/05837 ~ Complete ~54:SUBSTITUTED PYRROLOPYRIDINES AS JAK INHIBITORS ~71:Aclaris Therapeutics, Inc., 640 Lee Road, Suite 200, WAYNE 19087, PA, USA, United States of America ~72: ANDERSON, David Randolph;BLINN, James Robert;CHANGELIAN, Paul;JACOBSEN, Eric Jon;MUKHERJEE, Paramita;XU, Canxin~ 33:US ~31:62/842,197 ~32:02/05/2019

2021/05838 ~ Complete ~54:FLUID DRAINAGE DEVICE ~71:XPELLA (PTY) LTD, 8 Campbell Road, Craigavon, Fourways, South Africa ~72: SCHMITT, Karl-Heinz;SHAHIM, Clinton Frederick~ 33:ZA ~31:2019/00880 ~32:11/02/2019

2021/05830 ~ Complete ~54:METHOD AND SYSTEM FOR COLLECTING AND REPORTING RARE DISEASE DATA ~71:SHANDONG PROVINCIAL HOSPITAL AFFILIATED TO SHANDONG FIRST MEDICAL UNIVERSITY, No. 324, Jingwu Road, Huaiyin District, Shandong Province, People's Republic of China ~72: CAO, Feng;HE, Huihui;LEI, Yuxin;LIU, Ying;YANG, Caixia;YANG, Jun;ZHAI, Hong~ 33:CN ~31:202110076275.3 ~32:20/01/2021

2021/05834 ~ Complete ~54:COMPOSITIONS USEFUL IN TREATMENT OF KRABBE DISEASE ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: HORDEAUX, Juliette;KATZ, Nathan;WILSON, James M.~ 33:US ~31:62/810,708 ~32:26/02/2019;33:US ~31:62/817,482 ~32:12/03/2019;33:US ~31:62/877,707 ~32:23/07/2019;33:US ~31:62/916,652 ~32:17/10/2019

2021/05852 ~ Complete ~54:COMBINATION OF IL-4/IL-13 PATHWAY INHIBITORS AND PLASMA CELL ABLATION FOR TREATING ALLERGY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ASRAT, Seblewongel;LIMNANDER, Andre;MURPHY, Andrew, J.;ORENGO, Jamie;YANCOPOULOS, George, D.~ 33:US ~31:62/822,022 ~32:21/03/2019;33:US ~31:62/957,550 ~32:06/01/2020

2021/05832 ~ Complete ~54:FORMULATIONS CONTAINING ACTIVE OXYGEN COMPOUNDS AND DEVICES FOR APPLICATION THEREOF ~71:TOMPA MAJCEN, Dominika, Cesta Andreja Bitenca 118, LJUBLJANA 1000, SLOVENIA, Slovenia ~72: TOMPA MAJCEN, Dominika~ 33:SI ~31:P-201900011 ~32:14/01/2019

2021/05833 ~ Complete ~54:ARGINASE INHIBITORS AND METHODS OF USE THEREOF ~71:AstraZeneca AB, SÖDERTÄLJE 151 85, SWEDEN, Sweden ~72: FINLAY, Maurice Raymond Verschoye;GREBE, Tyler;KAWATKAR, Sameer;MLYNARSKI, Scott Nathan;SIMPSON, Iain~ 33:US ~31:62/802,765 ~32:08/02/2019

2021/05843 ~ Complete ~54:A GEMSTONE POLISHING ROBOT ~71:FREEDOM AUTOMATION SOLUTIONS LLP, 520 to 527, Podar Arcade, Khand Bazar, Varachha Road, Surat Gujarat, 395006, India ~72: IVAN NIKOLAYEVICH SYTENKO~ 33:IN ~31:201821041911 ~32:05/02/2019

2021/05849 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OCULOPHARYNGEAL MUSCULAR DYSTROPHY (OPMD) ~71:BENITEC IP HOLDINGS INC., Corporation Trust Centre, 1209 Orange Street, City of Wilmington, County of New Castle, United States of America ~72: KAO, Shih-Chu;ROELVINK, Petrus W.;STRINGS-UFOMBAH, Vanessa;SUHY, David~ 33:US ~31:62/812,187 ~32:28/02/2019

2021/05839 ~ Complete ~54:A METHOD AND EQUIPMENT FOR MEASURING ABSORPTION COEFFICIENT OF LIQUID ~71:Guangdong Ocean University, No. 1 Haida Road, Mazhang District, Zhanjiang, Guangdong, People's Republic of China ~72: Chen Qingxiang;Xiong Zhengye;Ye Rongchun~ 33:CN ~31:202010154150.3 ~32:07/03/2020

2021/05842 ~ Complete ~54:A GEMSTONE POLISHING ROBOT ~71:FREEDOM AUTOMATION SOLUTIONS LLP, 520 to 527, Podar Arcade, Khand Bazar, Varachha Road, Surat Gujarat, 395006, India ~72: IVAN NIKOLAYEVICH SYTENKO~ 33:IN ~31:201821041909 ~32:05/02/2019

2021/05816 ~ Provisional ~54:IMPROVED TOILET SEATS ~71:Gabriel Van Wyk, 2 MALVA Place, South Africa ~72: Gabriel Van Wyk~ 33:ZA ~31:ZA24781998996 ~32:09/08/2021

2021/05828 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING N-(3,5-DIMETHOXYPHENYL)-N'-(1-METHYLETHYL)-N-[3-(1-METHYL-1H-PYRAZOL-4-YL)QUINOXALIN-6-YL]ETHANE-1,2-DIAMINE ~71:ASTEX THERAPEUTICS LIMITED, 436 Cambridge Science Park Milton Road, Cambridge, Cambridgeshire, CB4 0QA, United Kingdom ~72: DIEGO FERNANDO DOMENICO BROGGINI~ 33:EP ~31:15154554.8 ~32:10/02/2015;33:EP ~31:15188982.1 ~32:08/10/2015

2021/05817 ~ Provisional ~54:PORTABLE GAZEBO ~71:ROY NEVILLE MANN, 20 Trotter Road, South Africa ~72: MANN, ROY NEVILLE~

2021/05824 ~ Complete ~54:QUOTA FERTILIZATION METHOD OF CHEMICAL FERTILIZERS TO CROPS ~71:Cultivated land and fertilizer management station of Zhejiang, 29 East Road of Fengqi, Hangzhou, Zhejiang, 310021, People's Republic of China;Hangzhou Lin's District Agricultural Technology Extension Center, No. 65 Changqiao Road, Jincheng Street, Lin's District, Hangzhou, Zhejiang, 311300, People's Republic of China;Zhejiang A&F University, No.666 Wusu Street, Lin's District, Hangzhou, Zhejiang, 311300, People's Republic of China ~72: CHEN, Hongjin;LI, Songhao;MA, Junwei;QIN, Hua;WU, Qifeng;YU, Yijun;ZHANG, Junhua~

2021/05831 ~ Complete ~54:RECYCLING OF LEAD-CONTAINING WASTE ~71:AURELIUS ENVIRONMENTAL LIMITED, St Georges Works, Bradleys Lane, Dudley, United Kingdom;CAMBRIDGE ENTERPRISE LIMITED, The Old Schools, Trinity Lane, United Kingdom ~72: FOX, Athan Lucian;KUMAR, Ramachandran Vasant;LIU, Rob;SELVARAJ, Vimalnath;YIAO, Marcel~ 33:GB ~31:1900833.3 ~32:21/01/2019

2021/05835 ~ Complete ~54:FOOD MATERIALS COMPRISING FILAMENTOUS FUNGAL PARTICLES AND MEMBRANE BIOREACTOR DESIGN ~71:The Fynder Group, Inc., 815 W. Pershing Road, Suite 4, CHICAGO 60609, IL, USA, United States of America ~72: AVNIEL, Yuval Charles;BLACK, Renata Usaite;ECKSTROM, Eleanore Brophy;HAMILTON, Maximilian DeVane;HARNEY, Michael John;KOZUBAL, Mark Andrew;MACUR, Richard Eugene~ 33:US ~31:62/811,421 ~32:27/02/2019

2021/05819 ~ Provisional ~54:A VALVE ~71:I-CAT INTERNATIONAL CONSULTING AND TRADING (PTY) LTD, N4 GATEWAY INDUSTRIAL PARK WEST, 38 AMATOLE ROAD, CRN. SOLOMON MAHLANGU DRIVE & BRONKHORSTSPRUIT ROAD, WILLOW MANOR PARK X65, PRETORIA, South Africa ~72: ROTHMANN, David, Schalk;VAN DER MERWE, Antonie, Duminy~

2021/05847 ~ Complete ~54:MTROC MODULATORS AND USES THEREOF ~71:AEOVIAN PHARMACEUTICALS, INC., 8001 Redwood Boulevard, Novato, California, 94945, United States of America ~72: ALEXANDRE FROIDBISE;GUILLAUME EPPE;IAN J MASSEY;STELIOS T TZANNIS~ 33:US ~31:62/795,482 ~32:22/01/2019

2021/05815 ~ Provisional ~54:A QR CODE OVER SOUND PAYMENT SYSTEM ~71:ANGUS BERNHARDT POHL, 473 ALEXANDER STREET, South Africa ~72: ANGUS BERNHARDT POHL~

2021/05829 ~ Complete ~54:ETELCALCETIDE FORMULATIONS FOR PARENTERAL USE ~71:AUROBINDO PHARMA LIMITED, The Water Mark Building, Plot No.11, Survey No.9, Hitech City, Kondapur, Hyderabad 500 084, Telangana, India ~72: AMARENDER REDDY DONTTHIDI;NAGAPRASAD VISHNUHOTLA;PRAVEEN KUMAR GOGU;SIVAKUMARAN MEENAKSHISUNDERAM~ 33:IN ~31:202041035040 ~32:14/08/2020

2021/05845 ~ Complete ~54:COMPOSITIONS AND METHODS FOR IDENTIFICATION OF ANTIGEN SPECIFIC T CELLS ~71:PACT PHARMA, INC., 2 Corporate Drive, South San Francisco, California, 94080, United States of America ~72: ALEXIS FRANZUSOFF;BARBARA SENNINO;BOI BRYANT QUACH;DUO AN;OLIVIER DALMAS;SONGMING PENG;STEFANIE MANDL-CASHMAN;XIAOYAN ROBERT BAO~ 33:US ~31:62/804,649

~32:12/02/2019;33:US ~31:62/826,823 ~32:29/03/2019;33:US ~31:62/867,165 ~32:26/06/2019;33:US
~31:62/876,380 ~32:19/07/2019

2021/05840 ~ Complete ~54:INDEPENDENT CODING OF PALETTE MODE USAGE INDICATION ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., ROOM B-0035 2/F NO.3 BUILDING NO.30 SHIXING ROAD SHIJINGSHAN DISTRICT, BEIJING, 100041, People's Republic of China;BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;WEIJIA ZHU;YUE WANG~ 33:CN ~31:PCT/CN2019/075994 ~32:24/02/2019

2021/05859 ~ Complete ~54:CRISPR/CAS9 SYSTEM WITHOUT PAM RESTRICTION AND APPLICATION THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, NO.700 CHANGCHENG ROAD, People's Republic of China ~72: JIN, CHUANZHAO;LI, HEGANG;WANG, SHANPENG;ZHANG, QUANWEI~

2021/05818 ~ Provisional ~54:A BUILDING ELEMENT ~71:CHRISTIE, Warren, James, Alexander, 93 ADRIANA CR., ROOIHUISKRAAL, CENTURION, 0157, SOUTH AFRICA, South Africa ~72: CHRISTIE, Warren, James, Alexander~

2021/05822 ~ Complete ~54:GIP/GLP1 CO-AGONIST COMPOUNDS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ABRAHAM, Milata Mary;ABURUB, Aktham;ALSINA-FERNANDEZ, Jorge;BROWN, Robert Andrew;CABRERA, Over;COSKUN, Tamer;CUMMINS, Robert Chadwick;DATTA-MANNAN, Amita;ELSAIED, Mohamed ElSayed Hamed;LAI, Xianyin;PATEL, Phenil Jayantilal;QU, Hongchang;SLOOP, Kyle Wynn;TRAN, Thi Thanh Huyen;WALLIS, James Lincoln;WILLARD, Francis Stafford~ 33:US ~31:62/702,072 ~32:23/07/2018;33:US ~31:62/730,563 ~32:13/09/2018;33:US ~31:62/740,596 ~32:03/10/2018

2021/05825 ~ Complete ~54:METHOD FOR IDENTIFYING RESISTANCE OF SUGARCANE TO BACTERIAL DISEASES ~71:Sugarcane Research Institute of Yunnan Academy of Agricultural Sciences, No. 363 Lingquan East Road, Kaiyuan City, Honghe Hani and Yi Autonomous Prefecture, Yunnan Province, 661699, People's Republic of China ~72: KONG, Chunyan;LI, Chunjia;LI, Xujuan;LIN, Xiuqin;LIU, Hongbo;LIU, Xinlong;LU, Xin;MAO, Jun;TIAN, Chunyan;XU, Chaohua~ 33:CN ~31:202110696089.X ~32:18/06/2021

2021/05848 ~ Complete ~54:APPLICATOR FOR ORAL ADMINISTRATION OF A SWALLOWABLE OBJECT TO A PATIENT ~71:ESOCAP AG, Malzgasse 9, 4052 Basel, Switzerland ~72: CHRISTOPH ROSENBAUM;JULIUS KRAUSE;PETER STANGIER~ 33:EP ~31:19162947.6 ~32:14/03/2019

2021/05826 ~ Complete ~54:NOVEL EFFICIENT WATER TREATMENT DEVICE ~71:Yancheng Institute Of Technology, No. 1 Xi-Wang-Da-Dao-Zhong-Lu, Yancheng, Jiangsu, People's Republic of China ~72: Dong Xiaohui;Pan Mei;Su Ying;Xu Guizhong;Zhen Shucong~

2021/05827 ~ Complete ~54:IMAGE RETRIEVAL METHOD BASED ON MULTIPLE-INSTANCE LEARNING ~71:Xidian University, 266 Xinglong Section of Xifeng Road, Xi'an, Shaanxi, People's Republic of China ~72: Cui Xiaoxuan;Feng Haonan;Li Runxin;Ma Qing;Meng Fanjie~

2021/05853 ~ Complete ~54:MATERIALS AND METHODS FOR ENHANCED TREATMENT AND PREVENTION OF BIOFILMS ~71:LOCUS IP COMPANY, LLC, 30500 Aurora Road, Suite 180, United States of America ~72: ALIBEK, Ken;FARMER, Sean~ 33:US ~31:62/819,000 ~32:15/03/2019;33:US ~31:62/846,079 ~32:10/05/2019

- APPLIED ON 2021/08/17 -

2021/05863 ~ Complete ~54:BRUSH PRESSURE TESTING DEVICE FOR TINY COMPONENTS
~71:Northwestern Polytechnical University, 127 West Youyi Road, Beilin District, Xi'an Shaanxi, 710072, People's Republic of China ~72: Chen Shuang;Kang Yonggang;Li Chunsheng;Liu Jiao;Tong Xiaoqing~

2021/05866 ~ Complete ~54:DETERRENT MATERIAL ~71:COCHRANE USA INC, 815 King Street, Suite 5D, Alexandria, United States of America ~72: BUCARIZZA, Vlado~ 33:ZA ~31:2020/06200 ~32:07/10/2020

2021/05870 ~ Complete ~54:AUTOMATIC TRAY LOADING SYSTEM AND USE METHOD OF THE SAME
~71:Ningbo Sanhan Alloy Material Co., Ltd., No. 333, Liantang Road, Binhai Economic Development Zone, Longshan Town, Cixi City, Ningbo City, Zhejiang Province, 315000, People's Republic of China;Qingdao University of Technology, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao City, Shandong Province, 266033, People's Republic of China ~72: CAO, Huajun;CHEN, Shuai;CUI, Xin;GAO, Teng;HONG, Huaping;JI, Weixi;LI, Changhe;LI, Haogang;LIU, Mingzheng;LU, Bingheng;LUO, Huiming;LUO, Liang;MA, Wuxing;TANG, Lizhi;WAN, Binhui;XU, Haizhou;XU, Jie;YANG, Min;YANG, Yuying;YIN, Shuo;ZHANG, Yanbin~ 33:CN ~31:202010838634.X ~32:19/08/2020

2021/05887 ~ Complete ~54:SELECTIVE INHIBITOR OF PROTEIN ARGININE METHYLTRANSFERASE 5 (PRMT5) ~71:PRELUDE THERAPEUTICS, INCORPORATED, 200 Powder Mill Road, Experimental Station E440/3213, Wilmington, Delaware, 19803, United States of America ~72: HONG LIN;HUAPING ZHANG;MARK ANDRES;QUN LI~ 33:US ~31:62/805,175 ~32:13/02/2019;33:US ~31:62/805,726 ~32:14/02/2019

2021/05892 ~ Complete ~54:POST ~71:STURE KAHLMAN, Strandvägen 3, 457 40, Fjällbacka, Sweden ~72: STURE KAHLMAN~ 33:SE ~31:1950062-8 ~32:18/01/2019

2021/05895 ~ Complete ~54:INHIBITION OF UNINTENDED MUTATIONS IN GENE EDITING
~71:SHANGHAITECH UNIVERSITY, Room 207, Administration Center, No. 393 Middle Huaxia Road, Pudong New Area, People's Republic of China ~72: CHEN, Jia;HUANG, Xingxu;WANG, Lijie;YANG, Bei;YANG, Li~ 33:CN ~31:PCT/CN2019/074577 ~32:02/02/2019

2021/05861 ~ Complete ~54:A NEW ENERGY FUEL PREPARATION PROCESS ~71:Qingdao University of Technology, No.11 Fushun Road, Qingdao, Shandong, People's Republic of China ~72: Gao Yanna;Liu Chao;Meng Xi~

2021/05864 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF RARE EARTH ELEMENT FOR PREPARING IMITATION GEM COLOR-CHANGE GLASS ~71:University of Science and Technology Beijing, No.30 Xueyuan Road, Haidian District, Beijing, People's Republic of China ~72: Li Hao;Li Keqing;Ni Wen;Pu Junyuan;Zhang Minggen;Zhang Siqi~

2021/05898 ~ Complete ~54:SATIETY INDUCING FOOD PRODUCTS AND PREPARATION THEREOF
~71:SMARTBUBBLE LTD, 11 Ravina Street, 6939527, Israel ~72: EDELHEIT, Oded;ETZIONI, Adi;GOLAN, Alon~ 33:US ~31:62/811,690 ~32:28/02/2019

2021/05858 ~ Provisional ~54:SYSTEM AND METHOD OF MANAGING UNITS FOR USE IN ACCESSING A SERVICE ~71:ENVISAGED PLATFORM TO EXCITE CONVERGENCE (PTY) LTD, 14 Uluzi Street Amanda, South Africa ~72: LAMBERT, BOKOLOSHE LUNGILE;MKUBELO, XOLANI~

2021/05872 ~ Complete ~54:A TREAD RUBBER VULCANIZED BY A SEMI-EFFICIENT VULCANIZATION SYSTEM FOR A COMBINE-HARVESTER TIRE ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1, Xiangwang Road, Gulou District, Jiangsu Province, People's Republic of China ~72: JIN, Ling;WANG, Zaixue;XU, Yunhui;ZHANG, Xiaoping;ZHAO, Guiying~

2021/05876 ~ Complete ~54:ANTI-BIOFOULING ARRANGEMENT AND METHOD OF DESIGNING SUCH AN ARRANGEMENT ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: HIETBRINK, Roelant Boudewijn;NIESSEN, Eduard Matheus Johannes;SCHUDELARO, Antonius Adrianus Petrus~ 33:EP ~31:19152510.4 ~32:18/01/2019

2021/05884 ~ Complete ~54:COMPOSITIONS, PREPARATION AND USES OF PARAMYLON ~71:Noblegen Inc., 2140 East Bank Drive, DNA Building B101, PETERBOROUGH K9L 1Z8, ON, CANADA, Canada ~72: CLARKE, Charles Jonathan;LI, Shaojun;LONG, Adam William;NOBLE, Adam J.;SABOURI, Somayeh;SASIDHARAN PILLAI, Prasanth Kumar;SWAIN, Angela;ZHANG, Chonggang~ 33:US ~31:62/812,767 ~32:01/03/2019

2021/05856 ~ Provisional ~54:NUEARS HEARING AID ~71:Marret Distribution, 93 Soetdoring Street,, South Africa ~72: Marthinus Stephanus Ferreira~

2021/05871 ~ Complete ~54:INTELLIGENT PRODUCTION LINE FOR TURNING TOOL BIT CAVITIES AND USE METHOD THEREOF ~71:Ningbo Sanhan Alloy Material Co., Ltd., No. 333, Liantang Road, Binhai Economic Development Zone, Longshan Town, Cixi City, Ningbo City, Zhejiang Province, 315000, People's Republic of China;Qingdao University of Technology, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao City, Shandong Province, 266033, People's Republic of China ~72: CAO, Huajun;CHEN, Shuai;CUI, Xin;GAO, Teng;HONG, Huaping;JI, Weixi;LI, Changhe;LI, Haogang;LIU, Mingzheng;LU, Bingheng;LUO, Huiming;LUO, Liang;MA, Wuxing;TANG, Lizhi;WAN, Binhui;XU, Haizhou;XU, Jie;YANG, Min;YANG, Yuying;YIN, Shuo;ZHANG, Yanbin~ 33:CN ~31:202010840454.5 ~32:19/08/2020

2021/05883 ~ Complete ~54:READY-TO-USE INJECTABLE FORMULATIONS ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: FOSTER, Todd P.;JOSHI, Vijaya Bharti;LUO, Laibin~ 33:US ~31:62/814,440 ~32:06/03/2019

2021/05865 ~ Complete ~54:MODULAR PLATFORM SYSTEM COMPONENTS AND TOOLS ~71:THREE G METAL FABRICATIONS LTD, 2 Selbury Drive Oadby, Leicester, United Kingdom ~72: BAINS, Gurdip Singh~ 33:GB ~31:2012913.6 ~32:18/08/2020;33:GB ~31:2108837.2 ~32:18/06/2021;33:GB ~31:2111705.6 ~32:16/08/2021

2021/05874 ~ Complete ~54:PERFORM CRYPTOGRAPHIC COMPUTATION SCALAR MULTIPLY INSTRUCTION ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BRADBURY, Jonathan;JACOBI, Christian;MALLEY, Edward Thomas;SCHWARZ, Eric Mark~ 33:US ~31:16/276,689 ~32:15/02/2019

2021/05875 ~ Complete ~54:CUTTER DEVICE FOR ROUGH MACHINING OF PULLEY SLOT AND METHOD ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No. 333, LianTang Road, Binhai Cixi Economic Development Zone, Ningbo, Zhejiang, 315300, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road,, Economic and Technological Development Zone, Qingdao, Shandong, 266520, People's Republic of China ~72: DENG, Cunzhi;DIAO, Yuchen;HOU, Yali;JI, Heju;LI, Changhe;LI, Renzhuang;LI, Runze;LUO, Jian;MENG, Qingyang;XU, Haizhou;ZHANG, Yanbin;ZHENG, Wei~ 33:CN ~31:201910127169.6 ~32:20/02/2019

2021/05878 ~ Complete ~54:AEROSOL PROVISION SYSTEMS ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HUGHES, Steve;NELSON, David Alan~ 33:GB ~31:1902220.1 ~32:18/02/2019

2021/05889 ~ Complete ~54:FILTER APPARATUS, FILTER DISC SECTORS, FILTER ELEMENTS AND USES
~71:STEVE C BENESI, 611 McClay Road, Noyato, California, 94947, United States of America ~72: STEVE C
BENESI~ 33:US ~31:62/919,383 ~32:08/03/2019

2021/05869 ~ Complete ~54:MULTI-PROCEDURE INTEGRATED AUTOMATIC PRODUCTION LINE FOR
HARD ALLOY BLADES UNDER ROBOT CONTROL ~71:Ningbo Sanhan Alloy Material Co., Ltd., No. 333,
Liantang Road, Binhai Economic Development Zone, Longshan Town, Cixi City, Ningbo City, Zhejiang Province,
315000, People's Republic of China;Qingdao University of Technology, No. 777, Jialingjiang Road, Economic and
Technological Development Zone, Qingdao City, Shandong Province, 266033, People's Republic of China ~72:
CAO, Huajun;CHEN, Shuai;CUI, Xin;GAO, Teng;HONG, Huaping;JI, Weixi;LI, Changhe;LI, Haogang;LIU,
Mingzheng;LU, Bingheng;LUO, Huiming;LUO, Liang;MA, Wuxing;TANG, Lizhi;WAN, Binhui;XU, Haizhou;XU,
Jie;YANG, Min;YANG, Yuying;YIN, Shuo;ZHANG, Yanbin~ 33:CN ~31:202010859250.6 ~32:24/08/2020

2021/05882 ~ Complete ~54:HUMANIZED ANTI-DLL3 CHIMERIC ANTIGEN RECEPTORS AND USES
THEREOF ~71:Phanes Therapeutics, Inc., 9215 Brown Deer Road, Suite B, SAN DIEGO 92121, CA, USA,
United States of America ~72: JIA, Haiqun;WANG, Minghan;ZOU, Hui~ 33:US ~31:62/830,598
~32:08/04/2019;33:US ~31:62/861,377 ~32:14/06/2019;33:US ~31:62/896,790 ~32:06/09/2019;33:US
~31:62/928,615 ~32:31/10/2019

2021/05897 ~ Complete ~54:DIFFERENTIAL AND THRUST WASHER THEREFOR ~71:TIGERCAT
INDUSTRIES INC., 54 Morton Avenue East, Brantford, Canada ~72: BLACKMAN, Benjamin;HOSKIN,
Peter;PETTE, Shawn Thomas~ 33:US ~31:62/794,895 ~32:21/01/2019

2021/05880 ~ Complete ~54:LAUNDRY DETERGENT COMPOSITIONS WITH STAIN REMOVAL ~71:The
Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United
States of America ~72: BIANCHETTI, Giulia Ottavia;LANT, Neil Joseph;PATTERSON, Steven George~ 33:EP
~31:19166201.4 ~32:29/03/2019

2021/05888 ~ Complete ~54:STRUCTURE, MANUFACTURING AND USES OF HOXD12-PDE8A CELL-
PENETRATING PEPTIDES ~71:PPL (BVI) LIMITED, Craigmuir Chambers Road Town, Tortola, Virgin Islands,
VG 1110, United Kingdom ~72: BRUCE H LITTMAN;CONNOR MACLEOD BLAIR;FRANK W
MARCOUX;GEORGE SCOTT BAILLIE~ 33:US ~31:62/803,123 ~32:08/02/2019

2021/05893 ~ Complete ~54:AXLE FIXATION FOR A VEHICLE AXLE, AND AXLE PLATE FOR SAME ~71:BPW
BERGISCHE ACHSEN KG, Ohlerhammer, Germany ~72: Manfred MICHELS;Rossen ILIEV~ 33:DE ~31:10
2019 107 816.4 ~32:27/03/2019

2021/05857 ~ Provisional ~54:LOW PROFILE HARD ROCK UNDERGROUND CRUSHING PLANT & FEEDER
~71:Shawn Eldred Robertson, 17 TOTIUS STREET, South Africa ~72: Shawn Eldred Robertson~

2021/05868 ~ Complete ~54:METHOD FOR PREPARING GERMINANT VIGNA ANGULARIS AIRFLOW
SUPERFINE WHOLE FLOUR RICH IN γ -AMINOBUTYRIC ACID THROUGH VACUUM-MSG STRESS
COMBINATION ~71:HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY, NO. 5 XINFENG ROAD, HIGH-
TECH ZONE, DAQING, People's Republic of China ~72: CAIXIA JIANG;DONGJIE ZHANG;XIUJIE JIANG~

2021/05886 ~ Complete ~54:HUMANIZED ANTI-CLAUDIN 18.2 CHIMERIC ANTIGEN RECEPTORS AND USES
THEREOF ~71:Phanes Therapeutics, Inc., 9215 Brown Deer Road, Suite B, SAN DIEGO 92121, CA, USA,
United States of America ~72: JIA, Haiqun;WANG, Minghan;ZOU, Hui~ 33:US ~31:62/825,955
~32:29/03/2019;33:US ~31:62/859,843 ~32:11/06/2019;33:US ~31:62/896,758 ~32:06/09/2019

2021/05891 ~ Complete ~54:WATER MANAGEMENT SYSTEM FOR ORE MINING OPERATION ~71:EXTRAKT PROCESS SOLUTIONS, LLC, 140 Turner Ct., Bowling Green, Kentucky, 42101, United States of America ~72: ARON LUPINSKY;BRUCE G MILLER;PAUL C PAINTER~ 33:US ~31:62/807,448 ~32:19/02/2019

2021/05894 ~ Complete ~54:METHODS AND APPARATUS FOR LIVESTOCK REARING ~71:GREENGAGE AGRITECH LIMITED, One, St. Peters Square Manchester, United Kingdom ~72: Derek LIDDLE;Katherine HERBORN;Lucy ASHER;Peter DONOGHUE~ 33:GB ~31:1901948.8 ~32:12/02/2019

2021/05854 ~ Provisional ~54:SCHOOL FEES TOP-UP ~71:Velly Sipho Phaloane, 4669 Mndeni crescent, Blue Valley Golf Estate, South Africa ~72: Velly Sipho Phaloane~

2021/05885 ~ Complete ~54:MULTIVALENT PD-L1 BINDING COMPOUNDS FOR TREATING CANCER ~71:Mayo Foundation for Medical Education and Research, 200 First Street S.W., ROCHESTER 55905, MN, USA, United States of America ~72: BARRY, Michael A.~ 33:US ~31:62/839,916 ~32:29/04/2019

2021/05896 ~ Complete ~54:OBTAINING DATA FROM A MOVING PARTICULATE PRODUCT ~71:Blue Cube Technology (Pty) Ltd, Shop 14B, The Woodmill, Vredenburg Road, Devonvallei, South Africa ~72: DU PLESSIS, Francois Eberhardt;LE ROUX, Pieter;THERON, Pieter~ 33:ZA ~31:2019/00491 ~32:24/01/2019

2021/05881 ~ Complete ~54:METHODS FOR TREATING MUSCULAR DYSTROPHY WITH CASIMERSEN ~71:Sarepta Therapeutics, Inc., 215 First Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: KAYE, Edward M.~ 33:US ~31:62/825,573 ~32:28/03/2019;33:US ~31:62/902,518 ~32:19/09/2019

2021/05873 ~ Complete ~54:STORAGE CONTAINER AND DISPENSER ~71:HIGHT, Myra, 1188 Jobs Peak Dr., South Lake Tahoe, CA, United States of America ~72: HIGHT, Myra~ 33:US ~31:62/807,358 ~32:19/02/2019

2021/05879 ~ Complete ~54:METHOD FOR DIRECT REDUCTION IN A FLUIDIZED BED ~71:Primetals Technologies Austria GmbH, Turmstraße 44, LINZ 4031, AUSTRIA, Austria ~72: EISL, Roland;HIEBL, Bernhard;OFNER, Hanspeter;REIN, Norbert;WURM, Johann~ 33:EP ~31:19163059.9 ~32:15/03/2019

2021/05899 ~ Complete ~54:FILTRATION APPARATUS AND METHOD ~71:PRO-FLO AS, Postboks 8034, Norway ~72: MELHUS, Trond~

2021/05855 ~ Provisional ~54:COMBUSTION OF MAGNETITE-BASED FUEL ~71:The Trustees for the time being of the KMN FULFILMENT TRUST, 8 Kestrel Street, Ebotse Golf Estate, Rynfield, BENONI 1504, SOUTH AFRICA, South Africa ~72: MAKGERU, Kabu Walter~

2021/05862 ~ Complete ~54:APPLICATION OF DIAGNOSTIC KIT AND MAK16 IN PREPARATION OF REAGENT FOR EARLY DIAGNOSIS OF SYSTEMIC LUPUS ERYTHEMATOSUS ~71:Anhui Medical University, No. 81 Meishan Road, Hefei, Anhui, People's Republic of China ~72: Fan Yinguang;Fang Xinyu;Ling Huazhi;Ye Dongqing~

2021/05867 ~ Complete ~54:METHODS FOR ENHANCING EFFICACY OF THERAPEUTIC IMMUNE CELLS ~71:NATIONAL UNIVERSITY OF SINGAPORE, 21 Lower Kent Ridge Road, 119077, Singapore ~72: DARIO CAMPANA;TAKAHIRO KAMIYA~ 33:US ~31:62/112,765 ~32:06/02/2015;33:US ~31:62/130,970 ~32:10/03/2015

2021/05877 ~ Complete ~54:GPC5D CHIMERIC ANTIGEN RECEPTORS AND CELLS EXPRESSING THE SAME ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: ATTAR, Ricardo;GANESAN, Rajkumar;GAUDET, Francois;HEIDRICH, Bradley J.;JONES, Carmen Baca;LEE, John;LI, Yingzhe;SINGH, Sanjaya;VENKATARAMANI, Sathya~ 33:US ~31:62/793,973 ~32:18/01/2019

2021/05860 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD THEREOF ~71:ZHU, Fengtang, Room 402, Unit 2, Building 1, No. 359, Youyi South Street, Qiaoxi District, Shijiazhuang,, People's Republic of China ~72: WANG, Fang;ZHU, Fengtang~

2021/05890 ~ Complete ~54:ORDER PICKING SYSTEM COMPRISING A PATERNOSTER CONVEYOR AND METHOD OF USING SUCH A SYSTEM ~71:QIMAROX PATENTEN B.V., Nobelstraat 43, 3846 CE, Harderwijk, Netherlands ~72: PIETER GERRIT HANNESSEN~ 33:NL ~31:2022727 ~32:12/03/2019;33:NL ~31:2023760 ~32:04/09/2019

- APPLIED ON 2021/08/18 -

2021/05923 ~ Complete ~54:AN ETHYLENE-PROPYLENE-DIENE MONOMER (EPDM) RUBBER PROTECTING SLEEVE FOR WIRES AND CABLES AND A METHOD FOR PREPARING THE SAME ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1, Xiangwang Road, Gulou District, Jiangsu Province, People's Republic of China ~72: LIU, Feng;LIU, Taichuang;LU, Gang;SHAO, Zefeng;SONG, Shuaishuai;XU, Yunhui;ZANG, Yanan;ZHANG, Min~

2021/05911 ~ Complete ~54:MULTI-MODE TRAFFIC SYSTEM OPTIMIZING AND DIAGNOSING METHOD BASED ON DIGITAL TWIN ~71:Chongqing Jiaoyun City Card Technology Co., Ltd, No. 4, Yingxun Tiandi, Chayuan, Nan'an District, Chongqing, People's Republic of China;Civil Aviation University of China, No. 2898, Jinbei Road, Dongli District, Tianjin, People's Republic of China;Shenzhen Urban Data Technology Co., Ltd, No. 23, Gaoxin South 7th Road, high tech Zone community, Yuehai street, Nanshan District, Shenzhen, People's Republic of China ~72: Fang Hai;Wei Ming;Xu Jiyong;Yang Jian;Zhang Chi;Zhou Fuhai~

2021/05909 ~ Provisional ~54:FOOD STEAMER ~71:Willem Johannes van Straaten, 49 Trafalgar Place Street, South Africa ~72: Shaun Gary Van Biljon~

2021/05912 ~ Complete ~54:WELSH ONION HARVESTER ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District, Qingdao, Shandong 266109, People's Republic of China ~72: Wang Fangyan~

2021/05930 ~ Complete ~54:COMPOUNDS, COMPOSITIONS AND METHODS ~71:DENALI THERAPEUTICS INC., 161 Oyster Point Blvd., South San Francisco, United States of America ~72: CRAIG, Robert, A., II;DE VICENTE FIDALGO, Javier;ESTRADA, Anthony, A.;FENG, Jianwen, A.;FOX, Brian, M.;OSIPOV, Maksim;THOTTUMKARA, Arun~ 33:US ~31:62/805,263 ~32:13/02/2019;33:US ~31:62/877,232 ~32:22/07/2019

2021/05937 ~ Complete ~54:NEGATIVE ZERO CONTROL IN INSTRUCTION EXECUTION ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BRADBURY, Jonathan;COPELAND, Reid;GUO, Xin;LEBER, Petra;LICHTENAU, Cedric;MUELLER, Silvia~ 33:US ~31:16/277,446 ~32:15/02/2019

2021/05926 ~ Complete ~54:MINING SYSTEM WITH A FLEXIBLE CONVEYOR SYSTEM ~71:UNDERGROUND EXTRACTION TECHNOLOGIES PTY LTD, GPO BOX 5253, BRISBANE QUEENSLAND 4001, AUSTRALIA, Australia ~72: MACDONALD, Brian~ 33:AU ~31:2019900589 ~32:25/02/2019

2021/05942 ~ Complete ~54:COMBINATIONS OF BINDING MOIETIES THAT BIND EGFR, HER2 AND HER3. ~71:MERUS N.V., Yalelaan 62, Netherlands ~72: DE KRUIF, Cornelis Adriaan;GALLENNE, Tristan Louis Jean;GEUIJEN, Cecilia Anna Wilhelmina;THROSBY, Mark~ 33:EP ~31:19157302.1 ~32:14/02/2019;33:EP ~31:19178564.1 ~32:05/06/2019

2021/05922 ~ Complete ~54:SPRINKLER GUARD ~71:UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: STOFFBERG, GERRIT HENDRIK~ 33:ZA ~31:2020/05132 ~32:19/08/2020

2021/05927 ~ Complete ~54:APPARATUS AND METHOD FOR ENCODING A SPATIAL AUDIO REPRESENTATION OR APPARATUS AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL USING TRANSPORT METADATA AND RELATED COMPUTER PROGRAMS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., HANSASTRASSE 27C, 80686 MÜNCHEN, GERMANY, Germany ~72: BAYER, Stefan;BOUTHÉON, Alexandre;DÖHLA, Stefan;FUCHS, Guillaume;HERRE, Jürgen;KÜCH, Fabian;THIERGART, Oliver~ 33:EP ~31:19152911.4 ~32:21/01/2019

2021/05928 ~ Complete ~54:CRYSTAL FORM OF 1,2,3-TRIAZOLO[1,5-A]PYRAZINES DERIVATIVE AND PREPARATION METHOD FOR CRYSTAL FORM ~71:JIANGSU HENGRUI MEDICINE CO., LTD., NO. 7 KUNLUNSHAN ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE LIANYUNGANG, JIANGSU 222047, CHINA, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO. LTD., NO. 279 WENJING ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, MINHANG DISTRICT, SHANGHAI 200245, CHINA, People's Republic of China ~72: DU, Zhenxing;FENG, Jun;HAN, Long;HE, Feng;MA, Yahui;SHAO, Qiyun;WANG, Jie;ZHAO, Miaomiao~ 33:CN ~31:201910072048.6 ~32:25/01/2019

2021/05943 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE INCLUDING PLURALITY OF WINDOWS ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: DONGHYUN YEOM;HARKSANG KIM;JIYONG KIM;JOUNGMIN CHO;JUNGCHUL AN;KWANGTAI KIM;SUNGJUN LEE~ 33:KR ~31:10-2019-0019545 ~32:19/02/2019

2021/05944 ~ Complete ~54:INTERLEUKIN-2 RECEPTOR (IL2R) AND INTERLEUKIN-2 (IL2) VARIANTS FOR SPECIFIC ACTIVATION OF IMMUNE EFFECTOR CELLS ~71:BIONTECH CELL & GENE THERAPIES GMBH, An der Goldgrube 12, 55131, Mainz, Germany ~72: ALEXANDER MUIK;MATTHIAS BIRTEL;SINA FELLERMEIER-KOPF;UGUR SAHIN~ 33:EP ~31:PCT/EP2019/056719 ~32:18/03/2019

2021/05924 ~ Complete ~54:COMBUSTION ENGINE ~71:CARBALLADA, Manuel Exposito, XV de Novembro, nº 324, Centro 29843000 Vila Pavão, BRAZIL, Brazil ~72: CARBALLADA, Manuel Exposito~ 33:BR ~31:BR 10 2019 001521 7 ~32:24/01/2019

2021/05904 ~ Provisional ~54:A MULTI-AXIAL JOINT FOR USE IN CIVIL CONSTRUCTION ~71:RAND YORK CASTINGS (PTY) LIMITED, 4 Lagoon Drive, South Africa ~72: CORBETT, Justin~

2021/05917 ~ Complete ~54:CURRENT CONTROLLING ELEMENT BASED ON SATURATION OF A MAGNETIC CIRCUIT ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: KOPEJTKO, Petr~ 33:GB ~31:2013521.6 ~32:28/08/2020

2021/05931 ~ Complete ~54:AZETIDOBENZODIAZEPINE DIMERS AND CONJUGATES COMPRISING THEM FOR USE IN THE TREATMENT OF CANCER ~71:MEDIMMUNE LIMITED, Milstein Building, Granta Park, United Kingdom ~72: CAILLEAU, Thais;HOWARD, Philip Wilson~ 33:GB ~31:1903541.9 ~32:15/03/2019;33:GB ~31:2000121.0 ~32:06/01/2020

2021/05938 ~ Complete ~54:SYSTEM OF CODED PACKAGE AND APPARATUS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CECCAROLI, Stefano;DUBIEF, Flavien;JACCARD, Sandrine;PINDJUROV, Riste~ 33:EP ~31:19153911.3 ~32:28/01/2019

2021/05906 ~ Provisional ~54:POSITIONING ARRANGEMENT ~71:Vortex Innovation Worx (Pty) Ltd, 4 Paddy Close, South Africa ~72: Bester Jacobus PANSEGRUW~

2021/05929 ~ Complete ~54:CONTAINER CLOSURE AND CONTAINER ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Erwin MAYER;Franz-Michael LÄSSER;Peter WINGHART;Werner STEURER~ 33:CH ~31:00288/19 ~32:11/03/2019;33:CH ~31:00523/19 ~32:16/04/2019;33:CH ~31:01467/19 ~32:20/11/2019;33:CH ~31:01695/19 ~32:23/12/2019

2021/05945 ~ Complete ~54:A BORING DEVICE FOR PIPE DIE ~71:TIAN, Gaochao, 23, Tianziwen Bay, Tuanjie Village, Huandiqiao Town, Huangshi, Hubei, People's Republic of China ~72: TIAN, Gaochao~

2021/05913 ~ Complete ~54:COMBINED CUTTING METHOD OF SMALL HOLE REINFORCED FRACTURING GRAIN AND SINGLE-SIDE CIRCUMFERENTIAL SLIT GRAIN ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan, Anhui, People's Republic of China ~72: Kong Xichen;Ma Shoulong;Wang Haibo;Wang Hao;Wang Mengxiang~

2021/05918 ~ Complete ~54:HYBRID COMMUNICATION SYSTEM ~71:Westinghouse Air Brake Technologies Corporation, 1001 Air Brake Avenue, WILMERDING 15148, PA, USA, United States of America ~72: HENNIGES, Benjamin;SILVA, Michael;UEHLING, Mark;WOLF, Charles L.~ 33:US ~31:63/067,469 ~32:19/08/2020;33:US ~31:17/397,978 ~32:09/08/2021

2021/05932 ~ Complete ~54:SYSTEMS AND METHODS FOR PRODUCING MAGNETICALLY RECEPTIVE LAYERS AND MAGNETIC LAYERS FOR USE IN SURFACE COVERING SYSTEMS ~71:GOLCONDA HOLDINGS, LLC, 9028 Ladner St., United States of America ~72: LAUTZENHISER, Lloyd L.;LEBLANC, Melinda;LEBLANC, Shane S.~ 33:US ~31:62/794,366 ~32:18/01/2019;33:US ~31:16/370,693 ~32:29/03/2019

2021/05939 ~ Complete ~54:BRAKE DISC ASSEMBLY AND METHOD ~71:Westinghouse Air Brake Technologies Corporation, 1001 Air Brake Avenue, WILMERDING 15148, PA, USA, United States of America ~72: BOFFELLI, Roberto;GONCALVES, Claudino;TIONE, Roberto~ 33:US ~31:62/808,421 ~32:21/02/2019

2021/05905 ~ Provisional ~54:A ROCKFALL PROTECTION SYSTEM ~71:RAND YORK CASTINGS (PTY) LIMITED, 4 Lagoon Drive, South Africa ~72: CORBETT, Justin~

2021/05934 ~ Complete ~54:TRANSMITTING A SYMBOL FROM A PLURALITY OF ANTENNAS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: LOPEZ, Miguel;WILHELMSSON, Leif~

2021/05940 ~ Complete ~54:DRUG DELIVERY SYSTEM ~71:The University of Birmingham, Edgbaston, BIRMINGHAM B15 2TT, UNITED KINGDOM, United Kingdom ~72: DE COGAN, Felicity;NIKOI, Naa Dei;PEACOCK, Anna~ 33:GB ~31:1900728.5 ~32:18/01/2019

2021/05914 ~ Complete ~54:INTELLIGENT MONITORING APPARATUS BASED ON INDUSTRIAL ROBOT ~71:SUZHOU YANKE XING INTELLIGENT TECHNOLOGY CO., LTD., Room 1903, Building 3, Dongmao Commercial Plaza, No.736 Shunhu West Road, Shengze Town, Wujiang District, Suzhou, Jiangsu, 215200, People's Republic of China ~72: LI, Guohui;LI, Shenghong;WEN, Gaosen;ZENG, Jingxia~

2021/05919 ~ Complete ~54:MUSHROOM PLANTING HOLDER ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, China, People's Republic of China ~72: Guanghui Ma;Jianmin Gao;Jing Mao;Jiyuan Wang;Jun Qin;Pangong He;Qiusheng She;Songhao Sun;Yongqi Yang;Yunsheng Yuan;Zhenying Zhu~ 33:CN ~31:202121719834.X ~32:27/07/2021

2021/05935 ~ Complete ~54:ANTI-TREM1 ANTIBODIES AND RELATED METHODS ~71:PIONYR IMMUNOTHERAPEUTICS, INC., 2 Tower Place, Suite 800, South San Francisco, United States of America ~72: CHAN, Christopher;LE, Tiep Tu;LIANG, Linda;PAL, Aritra;PRESTA, Leonard G.;SRIRAM, Venkataraman~ 33:US ~31:62/802,161 ~32:06/02/2019;33:US ~31:62/889,994 ~32:21/08/2019

2021/05907 ~ Provisional ~54:REEF CUTTING MACHINE ~71:AFRICAN RAINBOW MINERALS PLATINUM (PTY) LTD., ARM House, 29 Impala Road, CHISLEHURSTON, Sandton, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: CROUS, Izak Abram;GOODWIN, Nicolaas Bodenstein;JORDAAN, Barend Jacobus;PRETORIUS, Gerhard;WANNENBURG, Louis~

2021/05910 ~ Provisional ~54:FOOD STEAMER ~71:Willem Johannes van Straaten, 49 Trafalgar Place Street, South Africa ~72: Shaun Gary Van Biljon~

2021/05916 ~ Complete ~54:PADDY FIELD-BASED CRAYFISH BREEDING SYSTEM, CRAYFISH SEEDLING BREEDING METHOD AND APPLICATION THEREOF ~71:Freshwater Fisheries Research Center, Chinese Academy of Fishery Sciences, No. 9 Shanshui East Road, Wuxi, Jiangsu, People's Republic of China ~72: Gangchun XU;Hongjie XU;Jian ZHU;Jie HE;Pao XU;Xuwen BING~ 33:CN ~31:2020108596564 ~32:24/08/2020

2021/05925 ~ Complete ~54:PRODUCING COMPOSITIONS COMPRISING TWO OR MORE ANTIBODIES. ~71:MERUS N.V., Yalelaan 62, Netherlands ~72: BAKKER, Alexander Berthold Hendrik;DOORNBOS, Robert Paul~ 33:EP ~31:19157286.6 ~32:14/02/2019;33:EP ~31:19178542.7 ~32:05/06/2019

2021/05936 ~ Complete ~54:METHODS OF TREATING CASTRATE-RESISTANT PROSTATE CANCER ~71:FONDAZIONE PER L'ISTITUTO ONCOLOGICO DI RICERCA (IOR), Via Vincenzo Vela 6, Switzerland ~72: AL AJATI, Abdullah;ALIMONTI, Andrea;AMBROSIO, Mariantonietta~ 33:EP ~31:19155128.2 ~32:01/02/2019

2021/05908 ~ Provisional ~54:UC360(PTY) LTD ~71:Dylon Ashley Copeland, 3 Michael Gardens, 44 Charl Cilliers Avenue, South Africa ~72: Dylon Ashley Copeland~ 33:ZA ~31:zaa ~32:17/08/2021

2021/05915 ~ Complete ~54:HIGH-FREQUENCY VIBRATION ENERGY AMPLIFICATION DEVICE WITH CLAMPING APPARATUS FOR SMALL WORK-PIECE ~71:Shanghai Maritime University, 1550 Haigang Avenue, Nanhui, Pudong, Shanghai, People's Republic of China ~72: Bangping Gu;Ping Wang;Xiong Hu;Zhipeng Huo;Zhongshan Wang~ 33:CN ~31:CN202011021098.0 ~32:25/09/2020

2021/05933 ~ Complete ~54:TREATMENT OF KIDNEY INJURY ~71:NATIONAL UNIVERSITY OF SINGAPORE, 21 Lower Kent Ridge Road, Singapore;SINGAPORE HEALTH SERVICES PTE. LTD., 31 Third Hospital Avenue, #03-03 Bowyer Block C, Singapore ~72: COOK, Stuart Alexander;SCHAEFER, Sebastian;WIDJAJA, Anissa Anindya~ 33:GB ~31:1902419.9 ~32:22/02/2019

2021/05941 ~ Complete ~54:TELESCOPIC NAIL AND ASSOCIATED PERFORATING TOOL ~71:ORTHOFIX S.R.L., Via delle Nazioni, 9, Italy ~72: FINIDORI, Georges Fernand Jacques;PEJIN, Zagorka;VENTURINI, Daniele~ 33:IT ~31:102019000003285 ~32:06/03/2019

2021/05920 ~ Complete ~54:ANTIBODY THAT BINDS ERBB-2 AND ERBB-3 ~71:MERUS N.V., Yalelaan 62, 3584 CM, Utrecht, Netherlands ~72: ALEXANDER BERTHOLD HENDRIK BAKKER;CECILIA ANNA WILHELMINA GEUIJEN;CORNELIS ADRIAAN DE KRUIF;MARK THROSBY;TON LOGTENBERG~ 33:EP ~31:14157360.0 ~32:28/02/2014;33:EP ~31:14167066.1 ~32:05/05/2014

2021/05921 ~ Complete ~54:A COMPUTER-IMPLEMENTED GENOME TRACKING METHOD AND SYSTEM ~71:Tshwane University of Technology, Arcadia Campus, 175 Mandela Drive, Arcadia, PRETORIA 0083,

Gauteng Province, SOUTH AFRICA, South Africa ~72: EKWANZALA, Mutshiene Deogratias;MOMBA, Maggy Ndombo Benteke~ 33:ZA ~31:2020/04797 ~32:03/08/2020

2021/05946 ~ Provisional ~54:CREATIVE ~71:Mr Karabo Baloyi, 14141 Molomo Street,, South Africa ~72: Mr Karabo Baloyi~

- APPLIED ON 2021/08/19 -

2021/05952 ~ Complete ~54:NON-SURGICAL EMBRYO COLLECTION TOOL ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: FENG, Yanni;LI, Huatao;TIAN, Wenru~

2021/05959 ~ Complete ~54:CHARACTERIZATION OF ELECTRICITY-PRODUCING CELLS USING BROADBAND IMPEDANCE SPECTROSCOPY ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, Rondebosch, South Africa ~72: BARENDSE, Paul Stanley;OLAYIWOLA, Olufemi Isaac~

2021/05963 ~ Complete ~54:NOVEL BISPECIFIC ANTIBODY MOLECULE AND BISPECIFIC ANTIBODY SIMULTANEOUSLY COMBINING PD-L1 AND LAG-3 ~71:Innovent Biologics (Suzhou) Co., Ltd., 168 Dongping Street, Suzhou Industrial Park, SUZHOU 215123, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Bingliang;LIU, Junjian;NI, Haiqing~ 33:CN ~31:201910073261.9 ~32:25/01/2019

2021/05968 ~ Complete ~54:PLANT PALLET ~71:WEGROW GERMANY GMBH, Kehn 20, 47918, Tönisvorst, Germany ~72: PETER DIESSENBACHER~ 33:EP ~31:19152899.1 ~32:21/01/2019

2021/05950 ~ Complete ~54:A DISPLACEMENT DEVICE ~71:BREED, Michiel, Andries, 68 SYFERPAN AVENUE, EAST LYNNE, PRETORIA 0186, South Africa ~72: BREED, Michiel, Andries~ 33:ZA ~31:2020/05130 ~32:19/08/2020

2021/05969 ~ Complete ~54:RAMAN MARKERS ~71:CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, Serrano 117, 28006, Madrid, Spain;FÁBRICA NACIONAL DE MONEDA Y TIMBRE - REAL CASA DE LA MONEDA, Jorge Juan, 106, E-28009 , Madrid, Spain ~72: ALBERTO MOURE ARROYO;ESTHER ENRÍQUEZ PÉREZ;JOSÉ FRANCISCO FERNÁNDEZ LOZANO;VÍCTOR FUERTES DE LA LLAVE;VICENTE GARCÍA JUEZ~ 33:EP ~31:19382045.3 ~32:22/01/2019

2021/05960 ~ Complete ~54:NOVEL AEROSOL-GENERATING SUBSTRATE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: ARNDT, Daniel;CAMPANONI, Prisca;KNORR, Arno;LANG, Gerhard;SCHALLER, Jean-Pierre~ 33:EP ~31:19176618.7 ~32:24/05/2019

2021/05970 ~ Complete ~54:NOVEL HETEROTRICYCLIC DERIVATIVE COMPOUND AND USE OF SAME ~71:HANMI PHARMACEUTICAL CO., LTD., 214, Muha-ro, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18536, Republic of Korea ~72: CHANG HEE PARK;DONG JIN HONG;JI YOUNG HWANG;SEO HEE KIM;SEUNG HYUN JUNG;YOUNG GIL AHN~ 33:KR ~31:10-2019-0019544 ~32:19/02/2019

2021/05955 ~ Complete ~54:CONSTRUCTION METHOD FOR CELL-LIKE MEMBRANE COMPUTING MODEL ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, No. 168, Taifeng street, Anhui Province, People's Republic of China ~72: HAN, Tao;HUANG, Yourui;LAI, Wenhao;SONG, Hongping;SONG, Qi;XU, Shanyong~

2021/05972 ~ Complete ~54:ADAPTER FOR CANISTER FILLING SYSTEM AND METHOD FOR FILLING A GAS CANISTER ~71:SODASTREAM INDUSTRIES LTD., 1 Atir Yeda Street, Kfar Saba, 4464301, Israel ~72: ALLAN RING;AMIT AVIGDOR;AMNON SHKEDI;AVI COHEN;AVRAHAM VAKNIN;DORON KROM;DVIR

BRAND;ERAN SHAASHUA;EYAL SHMUELI;GUY DANIELI;HAGAI HARDUFF;MARK FUNT;OREN SHALEV~ 33:IL ~31:PCT/IL2020/050002 ~32:01/01/2020

2021/05954 ~ Complete ~54:DEVICE AND METHOD FOR PREPARING HIGH-ICE CONTENT FROZEN SOIL SAMPLE ~71:Anhui University of Science & Technology, No. 168 Taifeng Road, Shannan New District, Huainan, Anhui Province, People's Republic of China ~72: HUANG, Kun;MA, Dongdong;MA, Qinyong;SHI, Yuhang;XIANG, Huasong;ZHOU, Zhiwei~ 33:CN ~31:202110578094.0 ~32:26/05/2021

2021/05962 ~ Complete ~54:METHOD AND SYSTEM FOR A SECURE TRANSACTION ~71:QRYPTED TECHNOLOGY PTE LTD, 160 Robinson Road, No. 08-03 Singapore Business Federation Center, 068914, Singapore ~72: CARVAJAL, Alvin Uy;LIM, Meng Check;ONG, Rainier Ngie;TOH, Bu Jeen Eric~ 33:SG ~31:10201902395S ~32:18/03/2019

2021/05965 ~ Complete ~54:UNIVERSAL DONOR STEM CELLS AND RELATED METHODS ~71:President and Fellows of Harvard College, 17 Quincy Street, CAMBRIDGE 02138, MA, USA, United States of America ~72: COWAN, Chad A.;FERREIRA, Leonardo M. R.;MEISSNER, Torsten B.;STROMINGER, Jack L.~ 33:US ~31:16/277,913 ~32:15/02/2019;33:US ~31:16/596,697 ~32:08/10/2019

2021/05975 ~ Complete ~54:VARIANT AAV CAPSIDS FOR INTRAVITREAL DELIVERY ~71:ADVERUM BIOTECHNOLOGIES, INC., 800 Saginaw Dr., Redwood City, California, 94063, United States of America ~72: ANNAHITA KERAVALA;DIANA CEPEDA;MEHDI GASMI~ 33:US ~31:62/839,548 ~32:26/04/2019;33:US ~31:62/923,924 ~32:21/10/2019

2021/05949 ~ Provisional ~54:MULTIPLE SIZE BOTTLE OPENER ~71:Gerrit Renier Pretorius, PO Box 1105, Montana Park, South Africa;Tjaart Jurgen Smit, 32 Idol Rd., Lynnwood Glen, South Africa ~72: Gerrit Renier Pretorius;Tjaart Jurgens Smit~

2021/05958 ~ Complete ~54:METHOD FOR ESTABLISHING ANIMAL MODEL OF NON-COMPRESSIVE LUMBAR DISC NUCLEUS PULPOSUS HERNIATION ~71:General Hospital of Ningxia Medical University, 804 Shengli Street, Xingqing District, Yinchuan, Ningxia, People's Republic of China ~72: Chen Zhirong;Jin Qunhua;Li Peng;Liu Li;Lu Zhidong;Sun Kening;Zhang Liang~ 33:CN ~31:202010202425.6 ~32:20/03/2020

2021/05961 ~ Complete ~54:CLOSURE CAP FOR CLOSING A CONTAINER ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Erwin MAYER;Franz-Michael LÄSSER~ 33:CH ~31:00288/19 ~32:11/03/2019;33:CH ~31:00523/19 ~32:16/04/2019;33:CH ~31:01467/19 ~32:20/11/2019;33:CH ~31:01599/19 ~32:12/12/2019;33:CH ~31:01695/19 ~32:23/12/2019

2021/05971 ~ Complete ~54:CARBONATION MACHINE AND A GAS CANISTER FOR A CARBONATION MACHINE ~71:SODASTREAM INDUSTRIES LTD., 1 Atir Yeda Street, Kfar Saba, 4464301, Israel ~72: ALLAN RING;AMIT AVIGDOR;AMNON SHKEDI;AVI COHEN;DORON KROM;DVIR BRAND;ERAN SHAASHUA;EYAL SHMUELI;GUY DANIELI;HAGAI HARDUFF;MARK FUNT;OREN SHALEV~ 33:US ~31:16/411,870 ~32:14/05/2019

2021/05953 ~ Complete ~54:CROP DISEASE RECOGNITION AND YIELD ESTIMATION ~71:THE CLIMATE CORPORATION, 201 3rd Street #1100, San Francisco, California, 94103, United States of America ~72: DANIEL WILLIAMS;GERARD GUILLEMETTE;JOOST KEMINK;JUAN PABLO BEDOYA;JULIAN BOSHARD;MARIAN FARAH;VICTOR STUBER;WEI GUAN;YAQI CHEN;YING SHE~ 33:US ~31:15/688,567 ~32:28/08/2017

2021/05964 ~ Complete ~54:COMPUTING SYSTEM PROVIDING BLOCKCHAIN-FACILITATED SEMANTIC INTEROPERABILITY BETWEEN MULTIPLE DISPARATE SYSTEMS OF RECORD (SORS) AND RELATED METHODS ~71:Apex Data Solutions, LLC, 334 East Lake Road, #116, PALM HARBOR 34684, FL, USA, United

States of America ~72: CALCO, Bob;MATTON, Gregory E.~ 33:US ~31:62/800,715 ~32:04/02/2019;33:US ~31:16/778,521 ~32:31/01/2020

2021/05977 ~ Complete ~54:HYBRID RENEWABLE POWER GENERATION CONTROL ~71:GENERAL ELECTRIC COMPANY, 1 River Road, United States of America ~72: HART, Patrick;WANG, Honggang~

2021/05957 ~ Complete ~54:INTELLIGENT SWITCHING SYSTEM FOR SWITCHING INTERNAL COOLING AND EXTERNAL COOLING BASED ON MINIMAL QUANTITY LUBRICATION AND METHOD ~71:Qingdao University of Technology, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao City, Shandong Province, 266033, People's Republic of China;Shaanxi Jinzhao Aviation Technology Co., Ltd., 36 Hangkong 3rd Road, Xi'an Aviation Base, Shaanxi Province, 710000, People's Republic of China;Shanghai Jinzhao Energy Saving Technology Co., Ltd., Room 414, Building 2, No. 1006, Jinshajiang Road, Putuo District, Shanghai, 200333, People's Republic of China ~72: CAO, Huajun;CUI, Xin;GAO, Teng;HAN, Yixue;JIA, Dongzhou;LI, Changhe;LIU, Mingzheng;LU, Bingheng;MA, Hao;WU, Qidong;WU, Xifeng;YANG, Min;YANG, Yuying;ZHANG, Naiqing;ZHANG, Xiaowei;ZHANG, Yanbin;ZHAO, Xufeng~ 33:CN ~31:202011241667.2 ~32:09/11/2020

2021/05980 ~ Complete ~54:APREMILAST LIPOPHILIC TOPICAL PHARMACEUTICAL COMPOSITIONS ~71:APRAMITHA INNOVATIONS PRIVATE LIMITED, 403 & 404, Sri Vensai Towers, Near Cineplanet, Kompally, India ~72: KALAKOTI, Srikanth;MANAKKOTE, Ramdas;SREEDHARALA, Venkata Nookaraju~ 33:IN ~31:201941006472 ~32:19/02/2019

2021/05956 ~ Complete ~54:GAS STRUT, METHOD FOR PRODUCING THE GAS STRUT, DRIVE FOR A FLAP WITH THE GAS STRUT ~71:STABILUS GMBH, Wallersheimer Weg 100, Germany ~72: BEIB, Felix;PROBST, Ulrich;REISER, Alexander~ 33:DE ~31:10 2020 123 636.0 ~32:10/09/2020

2021/05966 ~ Complete ~54:ORAL CARE PRODUCT ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: LAVENDER, Stacey;MANDHARE, Manish;RINAUDI MARRON, Luciana;SCOULOS, Zoe;XU, Yun~ 33:US ~31:62/825,952 ~32:29/03/2019

2021/05973 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE INCLUDING INTEGRATED GROUND STRUCTURE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHANGYONG SEO;JAEHWAN PARK;JUNGCHUL AN;SEUNGKI CHOI~ 33:KR ~31:10-2019-0019344 ~32:19/02/2019

2021/05947 ~ Provisional ~54:COLLISION MITIGATION DEVICE ~71:Daryl Anthony SPENCER, 68b Jan Smuts Avenue, Winston Park, South Africa ~72: Daryl Anthony SPENCER~

2021/05974 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE COMPRISING PROTECTION MEMBER ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: JAEHWAN PARK;JUNGCHUL AN;SEUNGKI CHOI~ 33:KR ~31:10-2019-0019549 ~32:19/02/2019

2021/05978 ~ Complete ~54:APPARATUS FOR THE ORBITAL CUTTING AND CALIBRATION OF TUBES ~71:BLM S.P.A., Via Selvaregina 30, Italy ~72: VALSECCHI, Cristian~ 33:IT ~31:102019000002815 ~32:27/02/2019

2021/05951 ~ Complete ~54:SOLAR ENERGY TYPE ORGANIC WASTE TREATMENT EQUIPMENT AND APPLICATION METHOD THEREOF ~71:Beijing Academy of Agriculture and Forestry Sciences, Tower A, Agricultural Science Building, 11, Middle Shuguang Huayuan Road, Haidian District, Beijing, People's Republic of China ~72: Liu Jianbin;Wu Fengxia;Zhang Xin;Zou Guoyuan~

2021/05967 ~ Complete ~54:DEVICE AND METHOD TO COMPENSATE FOR AIR LEAK FROM AN ANESTHESIA CIRCLE CIRCUIT ~71:Texas Tech University System, Office of Research Commercialization, P.O. Box 42007, LUBBOCK 79409-2007, TX, USA, United States of America ~72: FUHRMAN, Bradley P.~ 33:US ~31:16/263,749 ~32:31/01/2019

2021/05976 ~ Complete ~54:PHARMACEUTICAL DOSAGE FORM FOR APPLICATION TO MUCOUS MEMBRANES AND METHODS FOR PRODUCING SAME ~71:ESOCAP AG, Malzgasse 9, 4052 Basel, Switzerland ~72: JULIUS KRAUSE~ 33:EP ~31:19162908.8 ~32:14/03/2019;33:EP ~31:19192961.1 ~32:21/08/2019

2021/05981 ~ Complete ~54:A LOW FREQUENCY OZONE GENERATOR ~71:PRIMOZONE PRODUCTION AB, Terminalvägen 2, Sweden ~72: SCOTT, Mikael~ 33:EP ~31:19159104.9 ~32:25/02/2019

2021/05948 ~ Provisional ~54:TYRE PRO-TRAC ~71:JP Wentzel, 17 Rissik St, South Africa ~72: JP Wentzel~

2021/05979 ~ Complete ~54:REMOVABLE INTEGRATED ACTUATOR ASSEMBLY FOR ELECTROSURGICAL FORCEPS ~71:BIPAD, INC., 110 Ocean Boulevard, United States of America ~72: CORNACCHIA III, Louis, G.~ 33:US ~31:62/795,049 ~32:22/01/2019

2021/05986 ~ Provisional ~54:QUEST REPUBLIC APPLICATION ~71:Mndeni Mncwango, 5 Comrie Road, South Africa;Nontuthuko Mthembu, Unit 20 Tinkas Place, 2 witney street, South Africa ~72: Mndeni Mncwango;Nontuthuko Mthembu~ 33:AP ~31:01 ~32:18/08/2021;33:US ~31:03 ~32:18/08/2021;33:ZA ~31:02 ~32:18/08/2021;33:ZA ~31:04 ~32:18/08/2021

- APPLIED ON 2021/08/20 -

2021/06002 ~ Complete ~54:METHOD FOR RAPIDLY CHANGING SALINE-ALKALI DESERTS AROUND OASIS INTO HIGH STANDARD FERTILE FARMLAND ~71:HEBEI AGRICULTURAL UNIVERSITY, No. 289 Lingyusi Street, People's Republic of China;INSTITUTE OF CASH CROPS, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No.403 Nanchang Road, People's Republic of China ~72: GU, Yuanguo;LI, Jinfeng;LIU, Liantao;LUO, Honghai;MA, Hui;MAYILA, Yusuyin;TIAN, Liwen;WANG, Liang;ZHANG, Na;ZHENG, Feng~

2021/06008 ~ Complete ~54:IN-LINE PRODUCTION OF LINERLESS LABELS ~71:AVERY DENNISON CORPORATION, 207 Goode Avenue, United States of America ~72: EDWARDS, David;MALLYA, PRAKASH~ 33:US ~31:16/253,145 ~32:21/01/2019

2021/06022 ~ Complete ~54:METHOD FOR PREPARATION OF A SUPPORTED NOBLE METAL-METAL ALLOY COMPOSITE, AND THE OBTAINED SUPPORTED NOBLE METAL-METAL ALLOY COMPOSITE ~71:Kemijski Inštitut, Hajdrihova ulica 19, LJUBLJANA 1000, SLOVENIA, Slovenia ~72: BELE, Marjan;GABERŠČEK, Miran;GATALO, Matija;HODNIK, Nejc~ 33:LU ~31:LU101157 ~32:18/03/2019

2021/06033 ~ Complete ~54:AN ELECTRIC GENERATOR HAVING A TOOTHLESS STATOR ~71:The Trustees for the time being of the KMN FULFILMENT TRUST, 8 Kestrel Street, Ebotse Golf Estate, Rynfield, BENONI 1504, SOUTH AFRICA, South Africa ~72: MAKGERU, Kabu Walter~ 33:ZA ~31:2019/00703 ~32:04/02/2019

2021/06038 ~ Complete ~54:CLOSURE DETECTION DEVICE ~71:HOWELL, Mark, 10 Vegkop Street Noordheuwel, South Africa;PIENAAR, Frans Roelof Petrus, 10 Vegkop Street Noordheuwel, South Africa ~72: HOWELL, Mark;PIENAAR, Frans Roelof Petrus;WOOD, Richard Roy~ 33:ZA ~31:2020/02904 ~32:20/05/2020

2021/05989 ~ Complete ~54:HETEROSTRUCTURE NANOCOMPOSITE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Southwest Minzu University, No. 16, the Fourth Section, South of First Ring Road, Chengdu, Sichuan, People's Republic of China ~72: Li Jing;Xu Ming~

2021/06035 ~ Complete ~54:METHOD AND SYSTEM FOR IRRADIATING AND ACTIVATING AN OBJECT
~71:UNIVERSITY OF JOHANNESBURG, Cnr Kingsway Avenue and University Road, Auckland Park,
JOHANNESBURG 2006, SOUTH AFRICA, South Africa ~72: CONNELL, Simon Henry;COOK, Martin Nkululeko
Hogan~ 33:ZA ~31:2019/00462 ~32:23/01/2019

2021/06003 ~ Complete ~54:MIXING MACHINE FOR PRECISELY APPLYING MULTIPLE FERTILIZERS TO
CROPS ~71:HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER,
No. 546, Xiaoran South Road, People's Republic of China;ZHEJIANG INSTITUTE OF GARDEN PLANTS AND
FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), No.
508, Cunwang Village, Wangcun, Youhu Line, Linpu Town, People's Republic of China ~72: AN, Xia;CHEN,
Changli;JIN, Guanrong;LI, Wenlue;LIU, Tingting;LUO, Xiahong;YING, Jinyao;ZHOU, Huaping;ZHU, Guanlin~

2021/06006 ~ Complete ~54:LIGHT-EMITTING DIODE ~71:SEOUL VIOSYS CO., LTD., 65-16, Sandan-ro 163
beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea ~72: HEO, Min Chan;KIM, Hyun A;KIM, Jae
Kwon;KIM, Jong Kyu;KIM, Kyoung Wan;LEE, Joon Sup~ 33:KR ~31:10-2019-0012666 ~32:31/01/2019;33:KR
~31:10-2019-0012988 ~32:31/01/2019

2021/05985 ~ Provisional ~54:DIGITAL CROWN ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou
Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;RADEMEYER, Daniel Barend;VAN
WYK, Jacobus Daniel~

2021/05995 ~ Complete ~54:TESTER FOR TESTING HUMAN DYNAMIC BALANCE AND TEST METHOD
~71:Shenyang University of Technology, 111 Shenliao West Road, Economic and Technological Development
Zone, People's Republic of China ~72: BO, Mingwei;GUO, Hui;JIA, Xiao;KONG, Zhenxing;LI, Zhuoran;LIU,
Yunting;SUN, Feng;SUN, Ping;WANG, Congtao;WANG, Lei;YU, Jingjing;ZHANG, Fucheng;ZHANG, Yimin~

2021/06000 ~ Complete ~54:METHOD FOR REALIZING HIGH SEEDLING PRESERVATION RATE OF
COTTON PRECISION SOWING COTTON FIELDS ~71:INSTITUTE OF CASH CROPS, XINJIANG ACADEMY
OF AGRICULTURAL SCIENCES, No.403 Nanchang Road, People's Republic of China;XINJIANG TIANYU SEED
INDUSTRY CO., LTD., 89 kilometers of Provincial Highway 307, People's Republic of China ~72: LIU,
Liantao;LIU, Zhongshan;LUO, Honghai;LUO, Zhen;NING, Shuo;TIAN, Conghua;TIAN, Liwen;ZHANG, Yongjiang~

2021/06007 ~ Complete ~54:IN-LINE PRODUCTION OF LINERLESS LABELS ~71:AVERY DENNISON
CORPORATION, 207 Goode Avenue, United States of America ~72: EDWARDS, David;MALLYA, PRAKASH~
33:US ~31:16/253,145 ~32:21/01/2019;33:US ~31:62/806,812 ~32:16/02/2019

2021/06026 ~ Complete ~54:METHOD FOR CARBON-CATALYSED THIOSULFATE LEACHING OF GOLD-
BEARING MATERIALS ~71:Barrick Gold Corporation, BCE Place, Canada Trust Tower, 161 Bay Street, Suite
3700, TORONTO M5J 2S1, ON, CANADA, Canada ~72: DOMANSKI, Daniel Feliks Raphael;OLVERA OLMEDO,
Oscar German~ 33:US ~31:62/794,887 ~32:21/01/2019;33:US ~31:62/819,005 ~32:15/03/2019

2021/05982 ~ Provisional ~54:REVERSE CIRCULATION DRILLING ~71:AUXANO GROUP PROPRIETARY
LIMITED, Unit 17 / 127 Herdsman Parade, Wembley, Perth WA 6014, AUSTRALIA, Australia ~72: BEATON,
Wayne Douglas;HERBST, Andre~

2021/06010 ~ Complete ~54:HYBRID BOILER-DRYER AND METHOD ~71:GENERAL ELECTRIC COMPANY,
One River Road Schenectady, United States of America ~72: EDBERG, Carl D.;UNKER, Steven A.;VITSE,
Frederic~ 33:US ~31:16/362,140 ~32:22/03/2019

2021/06013 ~ Complete ~54:EDIBLE FILM ~71:VISCOFAN, S.A., Polígono Industrial Berroa, C/ Berroa 15-4a planta, Spain ~72: CHRISTOPHIS, Christof;ETAYO, Vicente;MENGER, Hans-Joerg;RECALDE, José Ignacio~ 33:EP ~31:19171898.0 ~32:30/04/2019

2021/06025 ~ Complete ~54:METHOD FOR REDUCING THE ODOUR IN PARTICLE-FORMING CARBON MATERIALS ~71:SunCoal Industries GmbH, Rudolf-Diesel-Straße 15, LUDWIGSFELDE 14974, GERMANY, Germany ~72: LÜDER, Ulf;PODSCHUN, Jacob;SCHMAUCKS, Gerd;WITTMANN, Tobias~ 33:DE ~31:10 2019 104 406.5 ~32:21/02/2019

2021/06029 ~ Complete ~54:MICROBIAL TREATMENT ~71:Elanco US Inc., 2500 Innovation Way, GREENFIELD 46140, IN, USA, United States of America ~72: COX, Anna-Leigh Juliette Mary~ 33:US ~31:62/809,043 ~32:22/02/2019

2021/06019 ~ Complete ~54:USE OF PLASMA MEMBRANE PARTICLES, LIPOSOMES, AND EXOSOMES TO ASSAY IMMUNE CELL POTENCY ~71:RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, 700 Children's Drive, W-148, Columbus, Ohio, 43205, United States of America ~72: AAROHI THAKKAR;DEAN ANTHONY LEE;JENNIFER MUSZYNSKI;MARK HALL~ 33:US ~31:62/805,359 ~32:14/02/2019

2021/05984 ~ Provisional ~54:ANCHOR ARRANGEMENT ~71:MOHLALEFI (PTY) LTD., 18 Tongani Street, Bryanston Ext 45, Sandton, Gauteng, 2191, South Africa ~72: MARTIN NARE MASITISE~

2021/05987 ~ Complete ~54:A METHOD OF GRAFTING GRAPE DOUBLE ROOTSTOCK GREEN BRANCH ~71:Northwest A&F University, No.3 Licheng Road, Yangling District, Xianyang City, Shaanxi, People's Republic of China;Yang Ling Geng Xin Agriculture Co., Ltd., No.3 Licheng Road, Yangling District, Xianyang City, Shaanxi, People's Republic of China ~72: FAN Zining;FANG Yulin;FENG Muchen;HUI Zhumei;LEI Siyu;MENG Jiangfei;WANG Kexin;XU Tengfei;XU Yaqiang;ZHANG Peng~

2021/05988 ~ Complete ~54:A MULTIFUNCTIONAL BEDSIDE MOVABLE SUPPORT ~71:HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.263 Kaiyuan Avenue, Luolong District, Luoyang City, Henan, People's Republic of China ~72: Li Yumei;Liu Yishan~

2021/05991 ~ Complete ~54:DUAL-TARGETING DNA VACCINE OF SPRING VIRAEMIA OF CARP VIRUS AND A PREPARATION METHOD THEREOF ~71:Northwest A&F University, No.3 Taicheng Road, Yangling District, Xianyang, Shaanxi, People's Republic of China ~72: Guo Sheng;Zhang Chen;Zhu Bin~

2021/05994 ~ Complete ~54:A HIGH CAPACITY RIGID DRAWBAR TANKER TRUCK AND TRAILER COMBINATION ~71:Unitrans Africa (Pty) Ltd, Block G - Greenford Office Park, Punters Way, South Africa ~72: UNITRANS AFRICA (PTY) LIMITED~

2021/06004 ~ Complete ~54:AUTOMATIC CROP FURROWING AND LAND LEVELING DEVICE ~71:GUANGXI SUBTROPICAL CROPS RESEARCH INSTITUTE, No. 22, Yongwu Road, Xingning District, People's Republic of China;ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & BAST FIBER CROPS RESEARCH), No. 508, Cunwang Village, Wangcun, Youhu Line, Linpu Town, People's Republic of China ~72: AN, Xia;CHEN, Changli;CHEN, Tao;JIN, Guanrong;LI, Wenlue;LIU, Tingting;LUO, Xiahong;ZHU, Guanlin~

2021/06020 ~ Complete ~54:POLYOL FATTY ACID ESTER CARRIER COMPOSITIONS ~71:GREENTECH GLOBAL PTE, LTD., 9 Raffles Place, Republic Plaza 1, #06-00 Singapore, 048616, Singapore ~72: JONATHAN SPENDER;MICHAEL ALBERT BILODEAU;SAMUEL MIKAIL~ 33:US ~31:62/797,106 ~32:25/01/2019

2021/06031 ~ Complete ~54:FUSED PIPERIDINYL BICYCLIC AND RELATED COMPOUNDS AS MODULATORS OF C5A RECEPTOR ~71:InflaRx GmbH, Winzerlaer Str. 2, JENA 07745, GERMANY, Germany ~72: GUO, Renfeng;LI, Yong;RIEDEMANN, Niels Christoph~ 33:US ~31:62/816,726 ~32:11/03/2019;33:EP ~31:19177349.8 ~32:29/05/2019;33:US ~31:62/873,612 ~32:12/07/2019

2021/05983 ~ Provisional ~54:NAVIGATION MODULE AND SYSTEM ~71:SHEER VERSATILITY GROUP (PTY) LTD., 2015 N.U 17 Mdantsane, East London, 5219, South Africa ~72: SIVUYILE NGCANGA~

2021/06014 ~ Complete ~54:SOLID FORMS OF CONDENSED PYRAZINES AS SYK INHIBITORS ~71:KRONOS BIO, INC., 1300 So. El Camino Real, Suite 300, United States of America ~72: ANDRES, Patricia;FUNG, Peter C.;GIGUERE, Pierre;LAI, Chiajen;STEWART, Craig;TENG, Jing;TRAN, Duong D.;TRANTCHEVA, Iva;YARMUCH, Brian~ 33:US ~31:62/809,337 ~32:22/02/2019

2021/06016 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING FLT3 INHIBITOR AND HYPOMETHYLATING AGENT FOR TREATING ACUTE MYELOID LEUKEMIA ~71:HANMI PHARM. CO., LTD., 214, Muha-ro, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18536, Republic of Korea ~72: IN HWAN BAE;JAE YUL CHOI;JI SOOK KIM;YOUNG GIL AHN~ 33:KR ~31:10-2019-0021228 ~32:22/02/2019;33:KR ~31:10-2020-0021502 ~32:21/02/2020

2021/06023 ~ Complete ~54:THIAZOLOPYRIDINE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: CRESPO, Alejandro;SCHIEMANN, Kai;TANZER, Eva-Maria~ 33:EP ~31:19152961.9 ~32:22/01/2019

2021/06034 ~ Complete ~54:METHOD FOR GRINDING A HYDRAULIC BINDER ~71:CHRYSO, 19 Place de la Résistance, France ~72: BOUSTINGORRY, Pascal;GUILLLOT, Laurent;OYTUN YAZAN, Hüseyin~ 33:FR ~31:1901879 ~32:25/02/2019

2021/05990 ~ Complete ~54:ANCHORING AGENT STRUCTURE SUITABLE FOR FULL-LENGTH PRESTRESSED ANCHORING OF ANCHOR ROD AND CONSTRUCTION METHOD THEREOF ~71:China University of Mining and Technology, Nanhu Campus, China University of Mining and Technology, No. 1, Daxue Road, Quanshan District, Xuzhou, Jiangsu, People's Republic of China ~72: Hu Weichao;Zhang Nong;Zhao Yiming~

2021/05993 ~ Complete ~54:INTELLIGENT DESIGN SYSTEM AND METHOD FOR UNDERGROUND GAS PREVENTION DRILLING IN COAL MINE ~71:Anhui University Of Science & Technology, 168 Taifeng street, Shannan New District, Huainan, Anhui, People's Republic of China;China Coal Energy Research Institute Co., Ltd, No. 66, north section of Yanta Road, Beilin District, Xi'an, Shaanxi, People's Republic of China;Shandong Anyi mining equipment Co., Ltd, 29 Guoli Avenue, Huantai County, Zibo, Shandong, People's Republic of China ~72: Cheng Xiaoyu;Gao Han;Gong Xuanping;Guo Xin;Jiang Bingyou;Jiang Tao;Jin Peng;Li Shoushan;Li Tao;Li Yaobin;Ma Yankun;Xu Weijie;Xue Sheng;Yue Caihao;Zheng Chunshan;Zheng Xiaoliang~

2021/06001 ~ Complete ~54:FINANCIAL GLUE SPREADING DEVICE ~71:CHEN, Xi, Room 405, Unit 3, Building 2, Longquan Community Power Supply Zone, Longquan Office, Shandong Province, People's Republic of China ~72: CHEN, Xi~ 33:CN ~31:202110803527.8 ~32:16/07/2021

2021/06009 ~ Complete ~54:EASY OPEN END WITH INCREASED PANEL STIFFNESS ~71:CROWN PACKAGING TECHNOLOGY, INC., 11535 South Central Avenue, Alsip, United States of America ~72: EDWARDS, Elliann Amy;OLIVER, Blanca Pascual;RAMSEY, Christopher Paul;ROSELAAR, Katherine~ 33:GB ~31:1900924.0 ~32:23/01/2019

2021/06027 ~ Complete ~54:CRYSTALLINE FORM OF 1-(1-OXO-1,2-DIHYDROISOQUINOLIN-5-YL)-5-(TRIFLUOROMETHYL)-N-(2-(TRIFLUOROMETHYL)PYRIDIN-4-YL)-1H-PYRAZOLE-4-CARBOXAMIDE MONOHYDRATE ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: GEERTMAN, Robert Michael;KIMPE, Kristof Leonard;LEYS, Carina;WEI, Haojuan;ZHOU, Peng~ 33:IB ~31:2019/075834 ~32:22/02/2019

2021/06036 ~ Complete ~54:DETECTOR ARRANGEMENT, DETECTION SYSTEM AND METHOD OF POSITIONING A DETECTOR ARRANGEMENT TO REDUCE IMAGING ARTEFACTS ~71:UNIVERSITY OF JOHANNESBURG, Cnr Kingsway Avenue and University Road, Auckland Park, JOHANNESBURG 2006, SOUTH AFRICA, South Africa ~72: CONNELL, Simon Henry;COOK, Martin Nkululeko Hogan~ 33:ZA ~31:2019/00463 ~32:23/01/2019

2021/05996 ~ Complete ~54:HABITAT SUITABILITY ASSESSMENT OF ARGENTINE SHORTFIN SQUID IN THE SOUTHWEST ATLANTIC OCEAN BY WEIGHT-BASED HABITAT SUITABILITY MODELING APPROACH ~71:Shanghai Ocean University, No. 999 Huchenghuan Road, Pudong District, Shanghai, 201306, People's Republic of China ~72: Hewei LIU;Qian YI;Wei YU~

2021/05997 ~ Complete ~54:USE OF MELATONIN IN ENHANCING AROMA OF SHINE-MUSCAT GRAPES ~71:Shandong Agricultural University, No.61 Daizong Street, Taian, People's Republic of China ~72: YAO, Yuxin~

2021/05998 ~ Complete ~54:BLADE ASSEMBLY FOR CUTTING FOOD ~71:McCain Foods Limited, 8800 Main Street, FLORENCEVILLE-BRISTOL E7L 1B2, NEW BRUNSWICK, CANADA, Canada ~72: AIKENS, John Warren;BÖMONT, Sylvain;ROGERS, David M.~ 33:US ~31:16/358,846 ~32:20/03/2019

2021/05999 ~ Complete ~54:FINGER TOUCH RESPONSIVE VEHICULAR VISOR LOCALISED GLARE MITIGATION EQUIPMENT ~71:Denis KRASSAS, Denis KRASSAS, 4 Smyrna Court 195 Nigel Road Selcourt, South Africa ~72: Denis KRASSAS~ 33:ZA ~31:2020/00950 ~32:20/08/2020

2021/06021 ~ Complete ~54:USE OF A STIMULATING AGENT TO ASSAY IMMUNE CELL POTENCY ~71:RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, 700 Children's Drive, W-148, Columbus, Ohio, 43205, United States of America ~72: AAROHI THAKKAR;DEAN ANTHONY LEE;JENNIFER MUSZYNSKI;MARK HALL~ 33:US ~31:62/805,349 ~32:14/02/2019

2021/06024 ~ Complete ~54:HETEROCYCLIC DERIVATIVES ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293, GERMANY, Germany ~72: HEINRICH, Timo;SCHLESIGER, Sarah~ 33:EP ~31:19152928.8 ~32:22/01/2019

2021/06037 ~ Complete ~54:NOVEL TRITERPENE DERIVATIVES AS HIV INHIBITORS ~71:HETERO LABS LIMITED, Plot No B-80 & 81, A.P.I.E, Balanagar, India ~72: ADULLA, Panduranga Reddy;BANDI, Parthasaradhi Reddy;KASIREDDY, Bhaskar Reddy;KURA, Rathnakar Reddy~ 33:IN ~31:201941005217 ~32:11/02/2019

2021/06015 ~ Complete ~54:2-HYDROXYPROPYL-B-CYCLODEXTRIN (HPBCD) FOR USE IN THE TREATMENT OF BREAST CANCER ~71:UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, 1 Jan Smuts Avenue Braamfontein, South Africa ~72: KAUR, Mandeep;SAHA, Sourav Taru~ 33:ZA ~31:2019/00623 ~32:30/01/2019

2021/06018 ~ Complete ~54:MICRODROPLET MANIPULATION DEVICE ~71:LIGHTCAST DISCOVERY LTD, Broers Building 21-22 J J Thomson Avenue, Cambridge, CB3 0FA, United Kingdom ~72: JASMIN KAUR CHANA CONTERIO;RICHARD JEREMY INGHAM;THOMAS HENRY ISAAC~ 33:EP ~31:19158079.4 ~32:19/02/2019

2021/06030 ~ Complete ~54:A METHOD FOR THE TREATMENT OR PROPHYLAXIS OF CANCER BY TARGETING THE EXTRACELLULAR PORTION OF KERATIN 14 (KRT14) RESIDING ON CANCER CELLS ~71:Hudson Institute of Medical Research, 27-31 Wright Street, CLAYTON 3168, VIC, AUSTRALIA, Australia ~72: BILANDZIC, Maree;STEPHENS, Andrew Nicholas~ 33:AU ~31:2019900382 ~32:07/02/2019

2021/06017 ~ Complete ~54:ADENO-ASSOCIATED VIRUS VECTOR DELIVERY OF B-SARCOGLYCAN AND THE TREATMENT OF MUSCULAR DYSTROPHY ~71:RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, 700 Children's Drive, Room W172, Columbus, Ohio, 43205, United States of America ~72: JERRY R MENDELL;LOUISE RODINO-KLAPAC~ 33:US ~31:62/810,917 ~32:26/02/2019;33:US ~31:62/834,012 ~32:15/04/2019;33:US ~31:62/858,644 ~32:07/06/2019;33:US ~31:62/881,901 ~32:01/08/2019;33:US ~31:62/909,564 ~32:02/10/2019;33:US ~31:62/910,779 ~32:04/10/2019

2021/06032 ~ Complete ~54:COMMUNICATION INTERFACE OF A SECURE INTERFACE CONTROL ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BACHER, Utz;BORNTRAEGER, Christian;BRADBURY, Jonathan;BUENDGEN, Reinhard;BUSABA, Fadi;HELLER, Lisa~ 33:US ~31:16/296,460 ~32:08/03/2019

2021/05992 ~ Complete ~54:ADMINISTRATION CARRIER CONTAINING TGF ALPHA-SAPORIN AND PREPARATION METHOD OF ADMINISTRATION CARRIER ~71:The First Affiliated Hospital Of University Of South China, NO.69 Chuanshan Road, Shigu District, Hengyang, Hunan, People's Republic of China ~72: Chu Chun;Liu Xing;Yang Jun;Yang Ting;Zhao Junxiong~

2021/06005 ~ Complete ~54:ANTIBODIES THAT BIND TUMOR TISSUE, AND THEIR DIAGNOSTIC AND THERAPEUTIC USES ~71:ATRECA, INC., 835 Industrial Rd. Suite 400, United States of America ~72: DEFALCO, Jeff;EMERLING, Daniel Eric;FINN, Jessica;GREENBERG, Norman Michael;HUANG, Vera;LIPPOW, Shaun M.;LIU, Fengling;MANNING-BOG, Amy;ROBINSON, William H.;SCHOLZ, Alexander;SERAFINI, Tito;TAN, Yann Chong;VAD, Nikhil;VOLKMUTH, Wayne~ 33:US ~31:62/806,285 ~32:15/02/2019;33:US ~31:62/806,310 ~32:15/02/2019;33:US ~31:62/843,298 ~32:03/05/2019;33:US ~31:62/843,751 ~32:06/05/2019;33:US ~31:62/852,830 ~32:24/05/2019;33:US ~31:62/927,501 ~32:29/10/2019

2021/06028 ~ Complete ~54:PHARMACEUTICAL FORMULATIONS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: HOLM, Ren;KIMPE, Kristof Leonard;LATHUILE, Audrey Antoinette Ren;NEEFS, Thomas Eddy R;PROKOPCOV;Hana;SHAH, Sanket Manoj~ 33:IB ~31:2019/075844 ~32:22/02/2019

2021/06011 ~ Complete ~54:A MULTI-CHAMBER SOLAR COLLECTOR ~71:WORTHINGTON, Richard, John, 12 Pellew Avenue, Auldana, South Australia, Australia ~72: WORTHINGTON, Richard, John~ 33:AU ~31:2019900463 ~32:13/02/2019;33:AU ~31:2019901056 ~32:29/03/2019

2021/06012 ~ Complete ~54:HUMAN SERUM ALBUMIN IN FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: KIM, Dorothy;MARLOW, Michael~ 33:US ~31:62/813,843 ~32:05/03/2019

ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)

Application Number	Assignor	Assignee
2015/01889	ASHA BHAUSAHEB NIKAM, ULKA HIMANSHU PARAB, SHUBHADA VISHNU SURYAWANSHI and DHIRAJ BHAUSAHEB NIKAM	SACHIN NIKAM
2015/01889	BHAUSAHEB NIKAM	ASHA BHAUSAHEB NIKAM, ULKA HIMANSHU PARAB, SHUBHADA VISHNU SURYAWANSHI, DHIRAJ BHAUSAHEB NIKAM
2015/01889	SACHIN NIKAM	SHUBHADA VISHNU SURYAWANSHI, ASHA BHAUSAHEB NIKAM, DHIRAJ BHAUSAHEB NIKAM, ULKA HIMANSHU PARAB
2011/00027	BASF SE	DOW TECHNOLOGY INVESTMENTS LLC
2018/04429	AVITA MINING INNOVATIONS (PTY) LTD	MIDESK GLOBAL (PTY) LTD
2020/02668	OTAGO INNOVATION LIMITED	INSITUGEN LIMITED
2012/01052	MAR.PROJECT S.R.L.	LIMONTA SPORT S.P.A.
2017/02715	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2007/00172	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2009/07486	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2007/10100	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2019/03219	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2011/00206	CLARIANT FINANCE (BVI) LTD	CLARIANT INTERNATIONAL LTD
2015/00789	CLARIANT FINANCE (BVI) LTD	CLARIANT INTERNATIONAL LTD
2013/06224	CLARIANT PRODUKTE DEUTSCHLAND GMBH	CLARIANT INTERNATIONAL LTD
2013/08628	CLARIANT FINANCE (BVI) LTD	CLARIANT INTERNATIONAL LTD
2016/05691	MCLEAN, ANDREW THOMAS	CSV CONSTRUCTION (PTY) LTD
2021/02018	HANKS TB DIAGNOSTICS (PTY) LTD	ANNE FREDERICA GROBLER and URBAN VERMEULEN
2020/05362	SHIJIAZHANG SAGACITY NEW DRUG DEVELOPMENT COMPANY, LTD.	MEDSHINE DISCOVERY INC.
2018/00683	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2018/01944	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2019/04802	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2003/09032	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2006/05654	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2003/09338	SUD-CHEMIE IP GMBH & CO. KG	CLARIANT PRODUKTE (DEUTSCHLAND) GMBH
2009/01115	DUD-CHEMIE IP GMBH & CO. KG	CLARIANT PRODUKTE (DEUTSCHLAND) GMBH
2012/02694	CLARIANT FINANCE (BVI) LTD	CLARIANT INTERNATIONAL LTD
2009/07486	SUD-CHEMIE INC.	SID-CHEMIE INC.
2007/10100	SUD-CHEMIE INC.	SUD-CHEMIE INC.
2007/00172	SUD-CHEMIE INC.	SUD-CHEMIE INC.
2003/09032	SUD-CHEMIE INC.	CLARIANT CORPORATION
2006/05654	SUD-CHEMIE INC.	CLARIANT CORPORATION

Application Number	Assignor	Assignee
2013/06225	CLARIANT PRODUKTE DEUTSCHLAND GMBH	CLARIANT INTERNATIONAL LTD
2014/02020	CLARIANT CORPORATION	CLARIANT INTERNATIONAL LTD
2008/06166	FILTRONIC (PTY) LTD	TELEDYNE AUSTRALIA PTY LTD
2008/06166	TELEDYNE AUSTRALIA PTY LTD	TELEDYNE UK LIMITED
2017/02737	ARIAD PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2016/08224	ARIAD PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2012/09174	SUN PATENT TRUST	APPLE INC.
2017/00832	SPRING BIOSCIENCES CORPORATION	VENTANA MEDICAL SYSTEMS, INC.
2016/03379	RE-MATCH (UK) LIMITED	RE-MATCH HOLDING A/S
2003/00905	GERD HUGO	BASF SE
2013/04138	SHANGHAI BAOLONG AUTOMOTIVE CORPORATION	BAOLONG HUF SHANGHAI ELECTRONIC CO. LTD
2017/04165	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2013/08459	AUXILIUM CURA INNOVATIO AB	FOOTMENDER AB
2016/07809	AZAMOUR INVESTMENT CORPORATION INCORPORATED	MAGNEVANE PORTUGAL LDA.
2011/06841	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2010/06691	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2012/09500	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2002/08764	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2009/01088	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2013/07930	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2017/08610	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2009/08167	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2017/04113	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2014/07960	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2013/09129	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2013/08833	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2010/03154	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2009/07394	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2012/03379	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2009/08396	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2010/07334	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2009/01089	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2010/00533	ABB SCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2019/02727	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/02728	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2020/02262	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/06286	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2017/02569	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2020/02260	BRITISH AMERICAN TOBACCO	NICOVENTURES TRADING LIMITED

Application Number	Assignor	Assignee
	(INVESTMENTS) LIMITED	
2020/02261	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/05969	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/06287	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/05448	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/05923	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/06959	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/06290	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/05046	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/07893	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/01856	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2016/07058	BATMARK LIMITED	NICOVENTURES TRADING LIMITED
2018/07478	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/07138	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/06432	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/00576	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/06109	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/06020	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/05799	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/06140	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/05800	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2016/08007	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/00786	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2017/07260	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/03042	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/04528	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/00114	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED

Application Number	Assignor	Assignee
2019/07146	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/07112	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2017/08462	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/02437	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/06471	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/08630	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2015/00197	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2015/00196	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2016/04718	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/00739	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2017/00828	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/05102	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/03640	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/07728	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/00419	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/07729	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/01261	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2020/01785	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2017/04881	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2017/04169	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/02612	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/02797	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2017/03244	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2017/00419	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/03478	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2017/08560	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED

Application Number	Assignor	Assignee
2017/08695	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADIGN LIMITED
2017/08623	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2017/02763	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2017/04870	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/0089	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/03647	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2016/01429	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2015/02565	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2015/02566	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2015/02564	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2015/00193	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2017/00973	BATMARK LIMITED	NICOVENTURES TRADING LIMITED
2016/04697	BATMARK LIMITED	NICOVENTURES TRADING LIMITED
2019/04259	BATMARK LIMITED	NICOVENTURES TRADING LIMITED
2019/03647	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/02695	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/01862	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2015/00191	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/00784	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/00918	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/00785	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/00919	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/02579	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/02726	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/05841	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/07110	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2020/00312	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2019/00304	BRITISH AMERICAN TOBACCO	NICOVENTURES TRADING LIMITED

Application Number	Assignor	Assignee
	(INVESTMENTS) LIMITED	
2019/03647	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/01643	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2016/05859	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2018/01767	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/01575	NICOVENTURES HLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/01509	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/01014	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/02031	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/00899	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TREADING LIMITED
2017/02759	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2016/08206	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2017/08630	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2017/00418	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2018/02694	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2016/02074	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2015/06476	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2014/07155	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2014/02397	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2013/09478	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2015/09209	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2013/09627	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2013/00151	BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED	NICOVENTURES TRADING LIMITED
2015/08409	NICOVENTURES HOLDINGS LIMITED	NICOVENTURES TRADING LIMITED
2019/08498	NOSOCOMIAL VACCINE CORPORATION	ASTELLAS US LLC
2017/08389	ALEX DELMONI	SCHENCK PROCESS AUSTRALIA PTY LTD
2020/02668	OTAGO INNOVATION LIMITED	INSITUGEN LIMITED

Application Number	Assignor	Assignee
2020/07214	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2020/07213	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2020/07053	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2020/03697	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2020/07051	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2020/07216	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2021/00452	HARBIN INSTITUTE OF TECHNOLOGY, SHENZHEN	SHENZHEN ENVIRONMENTAL MONITORING CENTER STATION.
2020/01462	COCHRANE PRODUCTS (PTY) LTD	COCHRANE GULF FZE
2020/05268	AZAMOUR INVESTMENT CORPORATION	MAGNEVANE PORTUGAL LDA.
2020/06347	VIVAVISION BIOTECH, INC.	E-NITATE BIOPHARMACEUTICALS (HANGZHOU) CO., LTD
2003/05693	MERCK SHARP & DOHME CORP.	ORGANON LLC

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2020/03482	MICHEL VAN DE WIELE NV	VANDEWIELE NV
2020/06817	LUCITE INTERNATIONAL UK LIMITED	MITSUBISHI CHEMICAL UK LIMITED
2020/03481	MICHEL VAN DE WIELE NV	VANDEWIELE NV
2021/02075	COLD ENERGY NZ 1 LIMITED	COLD ENERGY TECHNOLOGY LIMITED
2019/06193	PLANTATION SHUTTERS PROPRIETARY LIMITED	UTOPIAN BRANDS PROPRIETARY LIMITED
2005/08937	REXNORD INDUSTRIES, INC.	REXNORD INDUSTRIES, LLC.
2020/02143	QUANTUM A RUS LLC	JSC QUANTUM A RUS

PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63

No records available

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

No records available

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR THE RESTORATION OF A LAPSED PATENT UNDER SECTION 47 OF THE ACT

Notice is hereby given **CARBONTRACK (PTY) LTD OF DENNEMEYER AND ASSOCIATES, DOCEX 2, HYDE PARK.MANOR, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **CARBONTRACK (PTY) LTD** an invention **INTERFACE DEVICE FOR AN ENERGY HARVESTING SYSTEM** numbered **2013/07585** dated **11/10/2013** which became void **12/10/2020** owing the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **TRUSTEES FOR THE TIME BEING OF THE WERNER KASK FAMILIETRUST OF SPOOR AND FISHER. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **TRUSTEES FOR THE TIME BEING OF THE WERNER KASK FAMILIETRUST** an invention **FREIGHT TRAILER** numbered **2018/2131** dated **03/04/2018** which became void **05/09/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **SEVAN BICAKCI OF DR GERNTHTPLTZ INC, P.O.BOX 8, CAPE TOWN. 8000** that made application for the Restoration of the Patent granted to said **SEVAN BICAKCI** an invention **METHOD TO CREATE THREE DIMENSIONAL IMAGE INSIDE STONE** numbered **2012/01050** dated **13/02/2012** which became void **15/12/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **JOHN PEAR CUMBERLEGE OF SIBANDA & ZANTWIJK, P. O. BOX 1615, HOUGHTON. JOHANNESBURG. 2041.** that made application for the Restoration of the Patent granted to said **JOHN PEAR CUMBERLEGE** an invention **IDLER** numbered **2015/03343** dated **07/09/2015** which became void **08/11/2016** owing to the non-payment of the prescribed renewal fee. Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **QUADRO MEDICAL (PTY) LTD OF DOCEX 161. DURBAN.** that made application for the Restoration of the Patent granted to said **QUADRO MEDICAL (PTY) LTD** an invention **SYSTEM FOR MONITORING THE INTERNATIONAL NORMALISING RATIO OF A PATENT** numbered **2015/08801** dated **02/12/2015** which became void **02/12/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **DAIICHI SANKYO COMPANY LIMITED OF ADAMS AND ADAMS, 4 DAVENTRY STREET, LYNNWOOD ROAD. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **DAIICHI SANKYO COMPANY LIMITED** an invention **DISPIROPYPROLIDINR DERIVATIVE** numbered **2015/08929** dated **20/11/2015** which became void **09/03/2015** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **HITEC ROBOTIC SYSTEMZ LTD OF 9 KRUGER STREET, OAKLANDS. 2192** that made application for the Restoration of the Patent granted to said **HITECH ROBOTIC SYSTEMZ LTD** an invention entitled **DRIVER STATE MONITORING SYSTEM** numbered **2010/04885** dated **02/01/2009** which became void **02/01/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **JOLUKI TRUST (IT2052/02) OF DEON DE BEER & ASSOCIATES INC., WILLOW WOOD OFFICE PARK, CNR AVE & CEDAR ROAD, BROADACRES. 2021** that made application for the Restoration of the Patent granted to said **JOLUKI TRUS (IT2052/02)** an invention entitled **DOSING OF LIQUIDS** numbered **2015/05190** dated **20/07/2015** which became void **20/07/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **WANG KEVIN SUNLIN OF BOWERS INC., 6 ALBURY OFFICE PARK, CNR ALBURY ROAD & JAN SMUTS AVENUE, HYDE PARK, JOHANNESBURG. 2196** that made application for the Restoration of the Patent granted to said **WANG KEVIN SUNLIN** an invention entitled **METHOD AND SYSTEM FOR LEGAL PARKING** numbered **2017/04484** dated **03/07/2017** which became void **02/12/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

APPLICATIONS TO CORRECT SPECIFICATION

THE PATENTS ACT, 1978 IN TERM OF SECETION 50(1)(a)

APPLICATION TO CORRECT SPECIFICATION

APPLICANT: AGIOS PHARMACEUTICALS, INC, 88 SIDNEY STREET, CAMBRIDGE, MASSACHUSETTS, 02139, UNITED STATES OF AMERICA Request permission to correct or to amend any patent, application for a patent or document lodged in pursuance of such application or in the register of Patent no: **2016/00667** a filing

date of **29 JANUARY 2016** Entitled: **THERAPEUTICALLY ACTIVE COMPOUNDS AND THEIR METHODS OF USE**

A copy of the original specification on which the proposed correction/amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on form no. 19) must be lodged at the Patent Office within 2 months from the date hereof.

Registrar of Patents

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: IFP ENERGIES NOUVELLES; ARKEMA FRANCE of **4 AVENUE DE BOIS PRÉAU, 92502, RUEIL-MALMAISON, FRANCE; 4 20 RUE D'ESTIENNE D'ORVES, 92700, COLOMBES, FRANCE** Request permission to amend the specification of letters patent no: **2019/00543** of **25 JANUARY 2019** for **ZEOLITE ADSORBENT IN THE FORM OF LOW-TORTUOSITY AGGLOMERATES.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: BIONTECH RNA PHARMACEUTICALS GMBH of **AN DER GOLDGRUBE 12, 55131, MAINZ, GERMANY** Request permission to amend the specification of letters patent no: **2018/05949** of **05 SEPTEMBER 2018** for **METHODS FOR PROVIDING SINGLE-STRANDED RNA.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: MAELGWYN MINERAL SERVICES AFRICA (PTY) LTD of **1332 CLUB HOUSE STREET, MARAISBURG, GAUTENG, 1709, SOUTH AFRICA** Request permission to amend the specification of letters patent no: **2007/05658** of **10 JULY 2007** for **EXTRACTION PROCESS FOR METALS LIKE GOLD AND PLATINUM INCLUDING FINE GRINDING, PULPING AND OXYGENATING.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: RODA FUTURA, LLC 4500 BISCAYNE BLVD., PH MIAMI, FLORIDA, 33137 UNITED STATES OF AMERICA. Request permission to amend the specification of letters patent no: **2020/05900** of **23 September 2020** for **REMOVABLE POWER ASSIST FOR MANUAL WHEELCHAIR.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: NANORX, INC 6 DEVOE PLACE CHAPPAQUA NY 10514 UNITED STATES OF AMERICA **REQUEST** permission to amend the specification of letters patent no: **2015/05436** of **28 July 2015** for **METADICHLOR R LIQUID AND GEL NANOPARTICLE FORMULATIONS.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00**. Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

(Payment to be affected by means of revenue stamps only.)

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

Registrar of Patents

21: 2010/08492. 22: 2010/11/25. 43: 2021/07/01
51: F04D

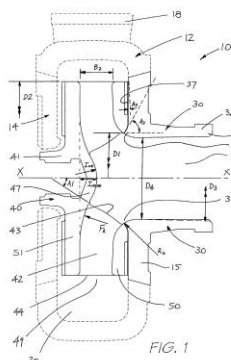
71: Weir Minerals Australia Ltd
72: BURGESS, Kevin Edward, LIU, Wen-Jie,
LAVAGNA, Luis Moscoso

33: AU 31: 2008902665 32: 2008-05-27

**54: IMPROVEMENTS RELATING TO
CENTRIFUGAL PUMP IMPELLERS**

00: -

A centrifugal pump impeller includes front and back shrouds and a plurality of pumping vanes therebetween, each pumping vane having a leading edge in the region of an impeller inlet and a trailing edge, the front shroud has an arcuate inner face in the region of the impeller inlet, the arcuate inner face having a radius of curvature (R_a) in the range from 0.05 to 0.16 of the outer diameter of the impeller (D_o). The back shroud includes an inner main face and a nose having a curved profile with a nose apex in the region of the central axis which extends towards the front shroud, there being a curved transition region between the inner main face and the nose. F is the radius of curvature of the transition region and the ratio F/D_o is from 0.32 to 0.65. Other ratios of various dimensions of the impeller are also described.



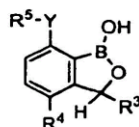
21: 2013/01598. 22: 2013/03/01. 43: 2021/06/14
51: A61K; A61P; C07F

71: Anacor Pharmaceuticals, Inc.
72: HERNANDEZ, Vincent S., DING, Charles,
PLATTNER, Jacob J., ALLEY, Michael Richard
Kevin, ROCK, Fernando, ZHANG, Suoming,
EASOM, Eric, LI, Xianfeng, ZHOU, Ding
33: US 31: 61/380,596 32: 2010-09-07

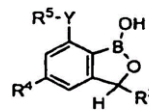
**54: BENZOXABOROLE DERIVATIVES FOR
TREATING BACTERIAL INFECTIONS**

00: -

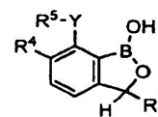
This invention relates to, among other items, benzoxaborole compounds and their use for treating bacterial infections. The compounds are of formula (I), (II) or (III) wherein R



(I)



(II)



(III)

21: 2013/01972. 22: 15/03/2013. 43: 2021/06/23
51: G01N

71: AUTHENTIX, INC.
72: CONROY, Jeffrey L. FORSHEE, Philip B
CRONIN, Paul John

33: US 31: 61/387,131 32: 2010-09-28

**54: DETERMINING THE QUANTITY OF A
TAGGANT IN A LIQUID SAMPLE**

00: -

Device and methods for detecting/quantifying a fluorescent taggant in a liquid sample. Generally, the liquid samples are fuels having low concentrations (measured in ppb) of a fluorescent taggant. The detection/quantification generates a predicted concentration of the fluorescent tagging compound using a process selected from the group of a multivariate process, a background subtraction process, or a combination of both. The invention addresses the detection of an adulteration of gasoline and diesel fuels.

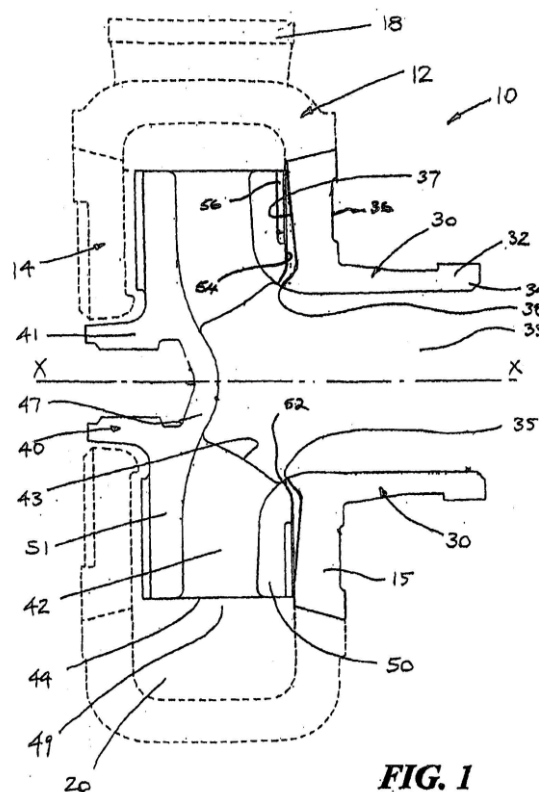
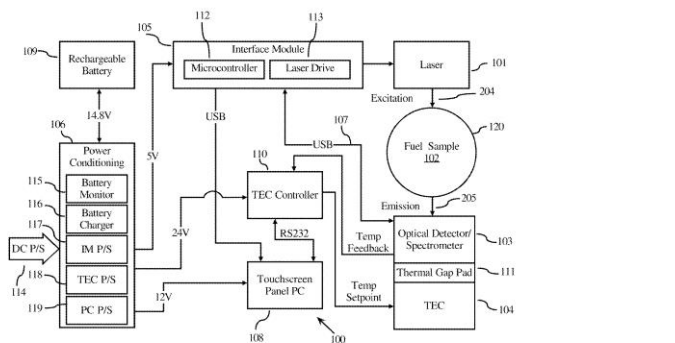


FIG. 1

21: 2013/09463. 22: 2013/12/13. 43: 2021/06/14
51: F04D

71: Weir Minerals Australia Ltd

72: LAVAGNA, Luis Moscoso, GLAVES, Garry Bruce

33: AU 31: 2011902894 32: 2011-07-20

54: IMPROVEMENTS TO PUMPS AND COMPONENTS THEREFOR

00: -

A pump side part for use with a shrouded pump impeller, comprising a side wall section rear face including an outer region with an outer edge in a plane which is substantially at right angles to the rotation axis, an inner region with an inner edge and an intermediate region between the outer and inner regions which is inclined inwardly from the said plane in a direction towards the inlet section, the inner region extending from the intermediate region in a direction away from the front face of the side wall section, wherein the outer face of the impeller front shroud and the side part rear face are arranged to be facing one another with a gap therebetween, the rear face being configured so that the cross-sectional dimension of the gap increases in a direction toward the impeller rotation axis in the intermediate region.

21: 2014/00087. 22: 2014/01/06. 43: 2021/06/14
51: C07B; C07C

71: Relypsa, Inc.

72: MU, Yongqi

33: US 31: 61/501,567 32: 2011-06-27

54: FLUORINATION OF ACRYLATE ESTERS AND DERIVATIVES

00: -

The present invention generally relates to processes for converting acrylate esters or a derivative thereof to difluoropropionic acid or a derivative thereof. This process is generally performed using fluorine gas in a hydrofluorocarbon solvent.

21: 2014/00792. 22: 03/02/2014. 43: 2021/06/14
51: A61K; C07C; C07D; A61P

71: Boehringer Ingelheim International GmbH

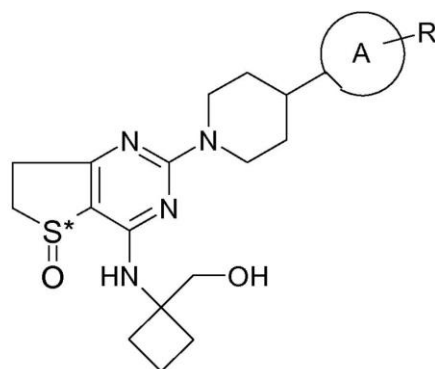
72: POUZET, PASCALE, A.J, NICKOLAUS, PETER, WERTHMANN, ULRIKE, FRUTOS, ROGELIO, P, YANG, BING-SHIOU, KIM, SOOJIN, MULDER, JASON, ALAN, PATEL, NITINCHANDRA, SENANAYAKE, CHRIS, H, TAMPONE, THOMAS, G, WEI, XUDONG

33: US 31: 61/526,861 32: 2011-08-24

54: NOVEL PIPERIDONO-DIHYDROTHIENOPYRIMIDINE SULFOXIDES AND THEIR USE FOR TREATING COPD AND ASTHMA

00: -

The invention relates to novel piperidino-dihydrothienopyrimidine sulfoxides of formula I, wherein Ring A is a 6-membered aromatic ring which may optionally comprise one or two nitrogen atoms and wherein R is Cl and wherein R may be located either in the para-, meta- or ortho-position of Ring A, wherein S* is a sulphur atom that represents a chiral center, and all pharmaceutically acceptable salts, enantiomers and racemates, hydrates and solvates thereof and the use of these compounds for the treatment of inflammatory or allergic diseases of the respiratory tract such as COPD or asthma.



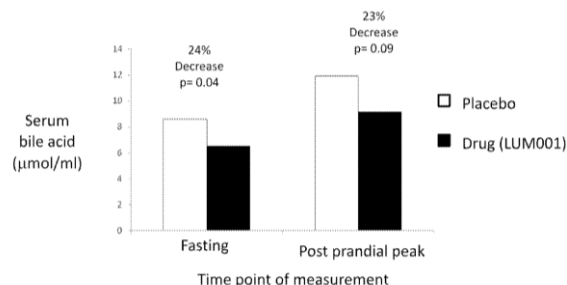
21: 2014/03368. 22: 12/05/2014. 43: 2021/06/23
 51: A61K; A61P
 71: SHIRE HUMAN GENETIC THERAPIES, INC.
 72: GEDULIN, Bronislava, GREY, Michael, O'DONNELL, Niall
 33: US 31: 61/553,094 32: 2011-10-28
 33: US 31: 61/607,487 32: 2012-03-06
 33: US 31: 61/607,503 32: 2012-03-06

54: BILE ACID RECYCLING INHIBITORS FOR TREATMENT OF PEDIATRIC CHOLESTATIC LIVER DISEASES

00: -

Provided herein are pediatric dosage forms for use in the treatment of a pediatric cholestatic liver disease by non-systemically administering to an individual in need thereof a therapeutically effective amount of the pediatric dosage form comprising an Apical Sodium-dependent Bile Acid Transporter Inhibitor (ASBTI) or a pharmaceutically acceptable salt thereof. Also provided are said pediatric dosage form for use in the treatment of a pediatric liver

disease, for use in decreasing the levels of serum bile acids or hepatic bile acids, for use in the treatment of pruritis, for use in reducing liver enzymes or bilirubin comprising non-systemically administering to an individual in need thereof a therapeutically effective amount of a pediatric formulation comprising an ASBTI or a pharmaceutically acceptable salt thereof.



21: 2014/07302. 22: 08/10/2014. 43: 2021/06/23
 51: A61K; C07K; A61P
 71: REGENERON PHARMACEUTICALS, INC
 72: ORENGO, Jamie, MURPHY, Andrew, J.
 33: US 31: 61/642,083 32: 2012-05-03
 33: US 31: 61/718,044 32: 2012-10-24
 33: US 31: 61/783,312 32: 2013-03-14

54: HUMAN ANTIBODIES TO FEL D1 AND METHODS OF USE THEREOF

00: -

The present invention provides antibodies that bind to the cat allergen, Fel d1, compositions comprising the antibodies, nucleic acids encoding the antibodies and methods of use of the antibodies. According to certain embodiments of the invention, the antibodies are fully human monoclonal antibodies that bind to Fel d1. The antibodies of the invention are useful for binding to the Fel d1 allergen in vivo, thus preventing binding of the Fel d1 allergen to pre-formed IgE on the surface of mast cells or basophils. In doing so, the antibodies act to prevent the release of histamine and other inflammatory mediators from mast cells and/or basophils, thus ameliorating the untoward response to the cat allergen in sensitized individuals. The antibodies of the invention may also be useful for diagnostic purposes to determine if a patient is allergic to the Fel d1 cat allergen.

21: 2015/00681. 22: 2015/01/29. 43: 2021/06/14
 51: B29B; B29C; B65D; B67D
 71: Heineken Supply Chain B.V.

72: WITTE, Pieter Gerard, PAAUWE, Arie Maarten, BAX, Bart Jan

33: NL 31: 2009234 32: 2012-07-26

54: TAPPING ASSEMBLY AND CONNECTING DEVICE; CONTAINER AND METHOD FOR BEVERAGE DISPENSING

00: -

Tapping assembly (1) for a beverage, comprising a first (20) and second (21) container, wherein the first container has a neck portion and the second container is suspended in the first container, from the neck portion thereof, wherein a neck region of the container is provided with at least one opening (22) in a side wall thereof, preferably in a neck region of the first container, opening into a space between the first and second containers, wherein the assembly further comprises a connecting device (5), connected or connectable to the neck portion, wherein the connecting device comprises at least one connecting element for connecting to the at least one opening, wherein the connecting element is connected to a source of pressurised gas.

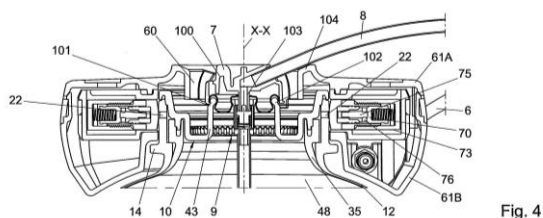


Fig. 4

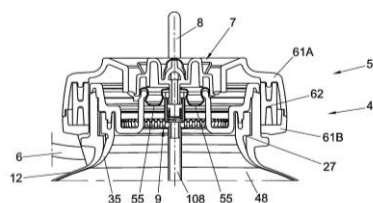


Fig. 5

21: 2015/01203. 22: 23/02/2015. 43: 2021/06/23

51: A61K; C07J; A61P

71: REATA PHARMACEUTICALS, INC.

72: JIANG, Xin, BENDER, Christopher, F., VISNICK, Melean

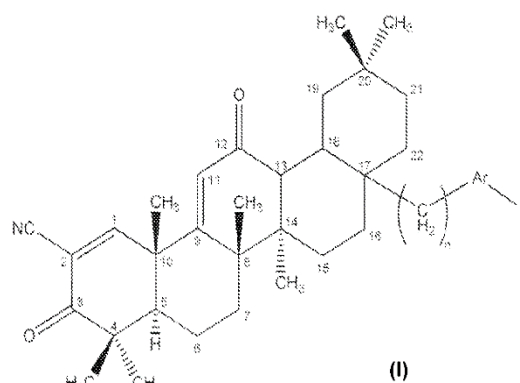
33: US 31: 61/699,199 32: 2012-09-10

54: C17-HETEROARYL DERIVATIVES OF OLEANOLIC ACID AND METHODS OF USE THEREOF

00: -

Disclosed herein are novel C17-heteroaryl derivatives of oleanolic acid, including those of the formula (I): wherein the variables are defined herein.

Also provided are pharmaceutical compositions, kits and articles of manufacture comprising such compounds. Methods and intermediates useful for making the compounds, and methods of using the compounds, for example, as antioxidant inflammation modulators, and compositions thereof are also provided.



21: 2015/01228. 22: 2015/02/23. 43: 2021/06/14

51: G06F

71: Interactive Intelligence, Inc.

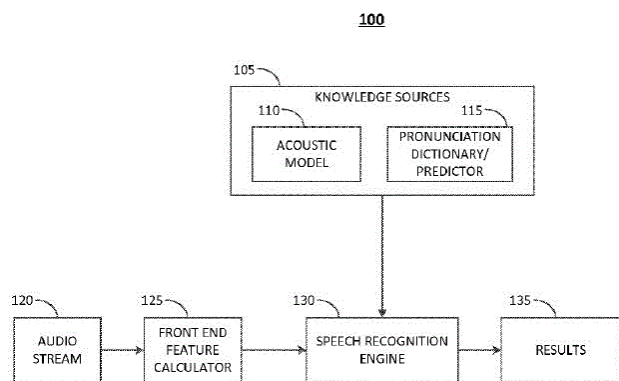
72: TYAGI, Vivek, GANAPATHIRAJU, Aravind, WYSS, Felix Immanuel

33: US 31: 61/692,934 32: 2012-08-24

54: METHOD AND SYSTEM FOR SELECTIVELY BIASED LINEAR DISCRIMINANT ANALYSIS IN AUTOMATIC SPEECH RECOGNITION SYSTEMS

00: -

A system and method are presented for selectively biased linear discriminant analysis in automatic speech recognition systems. Linear Discriminant Analysis (LDA) may be used to improve the discrimination between the hidden Markov model (HMM) tied-states in the acoustic feature space. The between-class and within-class covariance matrices may be biased based on the observed recognition errors of the tied-states, such as shared HMM states of the context dependent tri-phone acoustic model. The recognition errors may be obtained from a trained maximum-likelihood acoustic model utilizing the tied-states which may then be used as classes in the analysis.



21: 2015/02793. 22: 23/04/2015. 43: 2021/06/14
51: A01N

71: MONSANTO TECHNOLOGY LLC
72: HEMMINGHAUS, John ,W, MACINNES, Alison ,
WRIGHT, Daniel ,R., ZHANG, Junhua
33: US 31: 61/722,700 32: 2012-11-05
33: US 31: 61/794,769 32: 2013-03-15

54: LOW VOLATILITY HERBICIDAL COMPOSITIONS

00: -

The present invention relates generally low volatility herbicidal compositions comprising at least one auxin herbicide and at least one monocarboxylic acid, or monocarboxylate thereof. The invention further relates generally to methods for preparing and using such low volatility herbicidal compositions, including methods for controlling auxin-susceptible plant growth on agricultural and non-agricultural lands.

21: 2015/03635. 22: 22/05/2015. 43: 2021/06/22
51: A61K; A61P

71: ONCOPEPTIDES AB
72: SPIRA, JACK, LEHMANN, FREDRIK
33: SE 31: 1251211-7 32: 2012-10-26
33: US 31: 61/719,184 32: 2012-10-26

54: LYOPHILIZED PREPARATIONS OF MELPHALAN FLUFENAMIDE

00: -

The present invention is directed to lyophilized pharmaceutical preparations comprising melphalan flufenamide, or pharmaceutically acceptable salts thereof, and sucrose. Further independent claims are directed to methods for their preparation, compositions comprising the lyophilized pharmaceutical preparations and their use in the treatment of cancer.

21: 2015/06086. 22: 2015/08/21. 43: 2021/06/23
51: B01J; C01B; E21B

71: Baker Hughes Incorporated
72: KABASHESKU, Valery N., AGRAWAL, Gaurav,
DIGIOVANNI, Anthony A.

33: US 31: 13/782,341 32: 2013-03-01

54: METHODS OF FABRICATING POLYCRYSTALLINE DIAMOND BY FUNCTIONALIZING DIAMOND NANOPARTICLES, GREEN BODIES INCLUDING FUNCTIONALIZED DIAMOND NANOPARTICLES, AND METHODS OF FORMING POLYCRYSTALLINE DIAMOND CUTTING ELEMENTS

00: -

Method of fabricating polycrystalline diamond include functionalizing surfaces of diamond nanoparticles with fluorine, combining the functionalized diamond nanoparticles with a polymer to form a mixture, and subjecting the mixture to high pressure and high temperature (HPHT) conditions to form inter-granular bonds between the diamond nanoparticles. A green body includes a plurality of diamond nanoparticles functionalized with fluorine, and a polymer material interspersed with the plurality of diamond nanoparticles. A method of forming cutting element includes functionalizing surfaces of diamond nanoparticles with fluorine, and combining the functionalized diamond nanoparticles with a polymer to form a mixture. The mixture is formed over a body, and the mixture and the body are subjected to HPHT conditions to form inter-granular bonds between the diamond nanoparticles and secure the bonded diamond nanoparticles to the body.

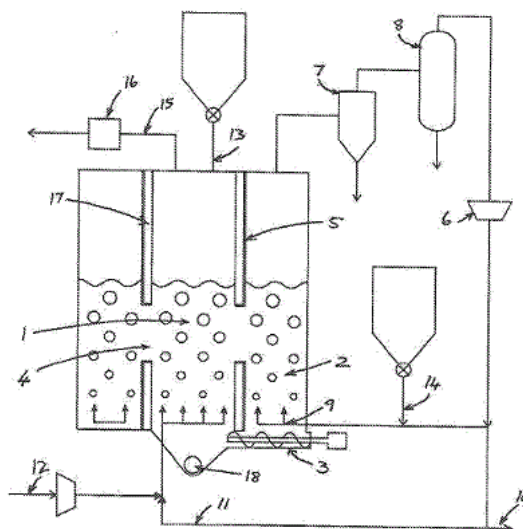
21: 2015/08400. 22: 2015/11/13. 43: 2021/06/14
51: C22B

71: Barrick Gold Corporation
72: CHOI, Yeonuk, GHARELAR, Ahmad
Ghahremaninezhad, AHERN, Noelene
33: US 31: 61/828,560 32: 2013-05-29

54: METHOD FOR ARSENIC OXIDATION AND REMOVAL FROM PROCESS AND WASTE SOLUTIONS

00: -

The disclosure relates to the oxidation and immobilization of trivalent arsenic from arsenic-containing solutions. The process includes oxidation of trivalent arsenic (As



51: B01J; C10B; F23C

72: HEYDENRYCH, Michael, David

33: ZA 31: 2013/04409 32: 2013-06-14

00: -

Energy may also be provided to zone 2 by means of conductive and radiative heat transfer through the dividing wall 5. Energy is provided to zone 1 by means of an exothermic reaction, typically combustion of a fuel 13 using air 12.

51: C07K

72: HO, WEI-HSIEN, LIU, SHU-HUI, PERNASETTI, FLAVIA, MERCER

33: US 31: 61/861,706 32: 2013-08-02

00: -

21: 2016/00441. 22: 20/01/2016. 43: 2021/06/14

51: A61M

71: PHARMA CONSULT GES.M.B.H.

72: SCHWIRTZ, Andreas, CSENAR, Markus

33: AT 31: A 514/2013 32: 2013-06-24

00: -

The invention relates to an activator unit for an autoinjector, comprising a substantially cylindrical housing (3) in which an axially movable pressure pin

(4) is guided, said pressure pin being insertable counter to a spring unit and being lockable, when inserted, by means of detent projections (6) of a retaining element (5) that is connected to the pressure pin. The spring unit comprises a first spiral spring (1) and at least one second spiral spring (2) having a larger diameter than the first spiral spring, the second spiral spring being coaxial to the first spiral spring.

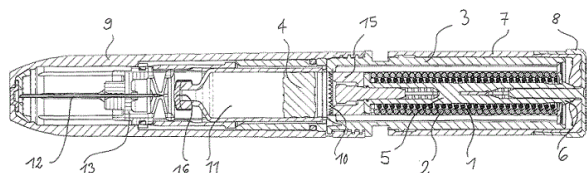


Fig. 1

21: 2016/00550. 22: 2016/01/26. 43: 2021/06/14
51: C12N

71: Takeda Vaccines, Inc.

72: STINCHCOMB, Dan T., LIVENGOD, Jill A., WIGGAN, O'Neil, KINNEY, Richard, OSORIO, Jorge
33: US 31: 61/120,262 32: 2008-12-05

54: COMPOSITIONS, METHODS AND USES FOR INDUCING VIRAL GROWTH

00: -

Embodiments herein report methods, compositions and uses for inducing and/or accelerating viral growth. In certain embodiments, methods, compositions and uses generally related to copolymer compositions for inducing viral growth, reducing lag time and/or increasing viral plaque size. In other embodiments, methods, compositions and uses of copolymer compositions can be for inducing flaviviral growth, reducing lag in growth and/or increasing plaque size.

21: 2016/01126. 22: 2016/02/18. 43: 2021/06/22
51: A21D; C12N

71: Lallemand Inc.

72: SANCHEZ JIMENA, Ana, KRAUS, Kevin

33: US 31: 61/867,761 32: 2013-08-20

54: MODERN PREFERMENT METHOD FOR MANUFACTURING DOUGH MIXTURE

00: -

There is provided a lactic acid bacteria strain, *Lactococcus lactis* with accession number IDAC 270613-01, having a short fermentation lag phase of 1 to 5 hours which is compatible with modern bread

making methods. Pre-ferment methods which use the strain for manufacture of leavened products and the leavened products produced therefrom are also disclosed.

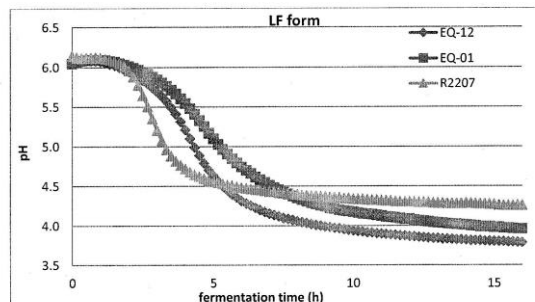


Figure 1

21: 2016/01337. 22: 2016/02/26. 43: 2021/06/14
51: B01F

71: The Coca-Cola Company

72: KRIEGER, Robert M., SHI, Yu, MOFFITT, Ronald D.

33: US 31: 61/872,310 32: 2013-08-30

33: US 31: 61/872,305 32: 2013-08-30

54: POLY(ETHYLENEFURANOATE) COPOLYMERS AND METHODS

00: -

The present invention is directed to a PEF copolymers, methods for processing the same to provide PEF preforms and articles (e.g., containers), as well as the preforms and articles formed by such methods. Advantageously, the PEF copolymers, preforms and articles of the present invention have one or more improved properties relative to unmodified (i.e., neat) PEF and articles formed therefrom.

21: 2016/02366. 22: 2016/04/07. 43: 2021/06/23
51: A61K; C07K

71: NOVARTIS AG

72: GHOSH, Joy, RUTZ, Mark Anthony, TISSOT-DAGUETTE, Katrin, Ulrike, SPLAWSKI, Igor, ROGUSKA, Michael

33: US 31: 61/733,566 32: 2012-12-05

54: COMPOSITIONS AND METHODS FOR ANTIBODIES TARGETING EPO

00: -

The present invention relates to compositions and methods for the inhibition of EPO. The invention provides antibodies and antigen binding fragments thereof that bind to EPO and are able to inhibit EPO-

dependent cell proliferation and/or EPO-dependent cell signaling.

21: 2016/03278. 22: 13/05/2016. 43: 2021/06/22

51: A61K; C07D

71: FORMA THERAPEUTICS INC.

72: BAIR, KENNETH W, HERBERTZ, TORSTEN, KAUFFMAN, GOSS STRYKER, KAYSER-BRICKER, KATHERINE J, LUKE, GEORGE P, MARTIN, MATTHEW W, MILLAN, DAVID S, SCHILLER, SHAWN E R, TALBOT, ADAM C

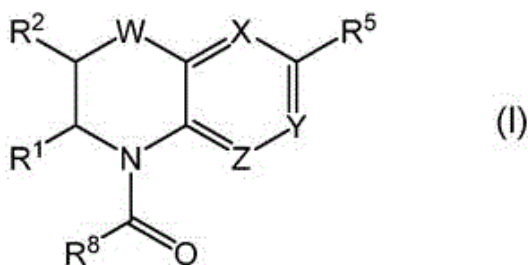
33: US 31: 61/905,639 32: 2013-11-18

33: US 31: 62/054,811 32: 2014-09-24

54: TETRAHYDROQUINOLINE COMPOSITIONS AS BET BROMODOMAIN INHIBITORS

00: -

The present invention relates to inhibitors of bromo and extra terminal (BET) bromodomains that are useful for the treatment of cancer, inflammatory diseases, diabetes, and obesity, having Formula (I): wherein W, X, Y, Z, R¹, R², R⁵, and R⁸ are as described herein.



21: 2016/06994. 22: 11/10/2016. 43: 2021/06/14

51: B61L

71: WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION

72: KLEMANSKI, Richard, S., HAAS, Carl, L.

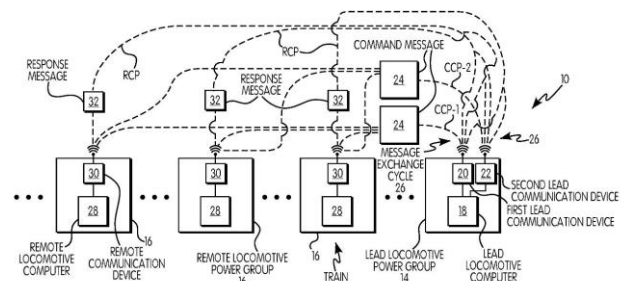
33: US 31: 14/539,389 32: 2014-11-12

54: COMMUNICATION SYSTEM AND METHOD FOR A TRAIN

00: -

A communication system for a train having a lead locomotive power group and at least one remote locomotive power group, the system including: a lead locomotive computer in communication with a first and second lead communication device and programmed to: generate a command message; transmit or cause the transmission of the command message from the first lead communication device in a predetermined time slot; and transmit or cause the

transmission of the command message from the second lead communication device in a different predetermined time slot; and at least one remote locomotive computer in communication with at least one remote communication device and programmed to directly or indirectly receive the command message from the first lead communication device and/or the second lead communication device. A communication method for a train is also disclosed.



21: 2016/07141. 22: 2016/10/17. 43: 2021/06/14

51: F16G; H02G

71: Quanta Associates, L.P.

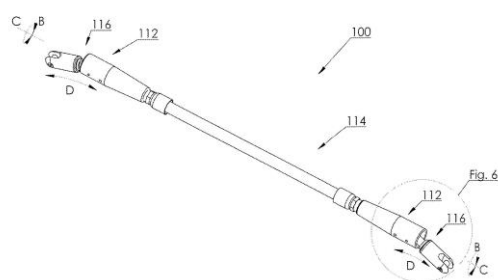
72: WABNEGGER, David Karl, PALMER, Robert Wayne, GREER, Jody Milton, BOUDREAU, Michael Howard

33: US 31: 61/968,543 32: 2014-03-21

54: FLEXIBLE ELECTRICAL ISOLATION DEVICE

00: -

An electrical isolator includes a flexible non-electrically conductive membrane and an inelastic flexible dielectric member journaled in the membrane and extending from the first end of the membrane to the second end of the membrane. First and second coupling members are anchored to the ends of the dielectric member. The ends of the membrane are mated in sealed engagement with the coupling members so that the coupling members fluidically seal the ends of the membrane and fluidically seal the dielectric member within the membrane. The membrane is filled with a dielectric fluid so as to displace any air in the membrane and the dielectric member. The coupling members are adapted to couple to objects at opposite ends of the electrical isolator.



21: 2016/08157. 22: 2016/11/24. 43: 2021/06/14

51: C10B

71: SES IP AB

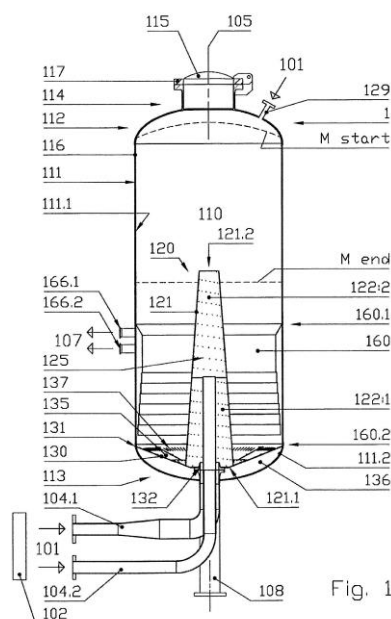
72: ERSHAG, Bengt -Sture, ERSHAG, Olov

33: SE 31: 1450593-7 32: 2014-05-20

54: ARRANGEMENT AND PROCESS FOR RECYCLING CARBON AND HYDROCARBON FROM ORGANIC MATERIAL THROUGH PYROLYSIS

00: -

The present invention concerns an arrangement for the recycling of carbon and hydrocarbon compounds from organic input material through pyrolysis treatment, comprising: a reactor (1) comprising a chamber (110) that is limited by a jacket (111) and upper and lower end-wall sections (112, 113), in which chamber input material (M) in fragmented form is intended to be introduced, gas inlet means (120) for the supply of heated inert gas (101) to the input material, whereby the gas inlet means (120) is connected in a manner that transfers gas to a gas emission source (102) through inlet pipes (104, 129, 187.1, 187.2) that are associated with inlet pipes, and gas outlets (160) for leading the gas out of the chamber, where the gas outlet means (120) comprises openings (125, 146, 155, 185) through which gas flows intended to supply the gas (101) into the chamber (110), whereby the openings (125, 146, 155, 185) through which gas flows are arranged such that a fall in pressure dP is generated during the supply of gas that exceeds the fall in pressure dM of the gas during passage through the input material M that has been introduced into the chamber. The invention concerns also a method for the recycling of carbon and hydrocarbon compounds from organic input material through pyrolysis.



21: 2017/00629. 22: 25/01/2017. 43: 2021/06/14

51: A61K; C07C; C07D; A61P

71: PIRAMAL ENTERPRISES LIMITED

72: SHARMA, Rajiv, DEORE, Vijaykumar Bhagwan,

YEAWALKAR, Nilambari Nilkanth, KUMAR, Sanjay

33: US 31: 62/028,891 32: 2014-07-25

54: SUBSTITUTED PHENYL ALKANOIC ACID COMPOUNDS AS GPR120 AGONISTS AND USES THEREOF

00: -

The present invention relates to substituted phenyl alkanolic acid compounds designated as the compound of Formula (I) (as described herein) or a tautomer, a stereoisomer, a geometrical isomer, a pharmaceutically acceptable salt, a pharmaceutically acceptable solvate, a prodrug, a polymorph, an N-oxide, a S-oxide or a carboxylic acid isostere thereof; which are GPR120 agonists. The present invention also relates to a pharmaceutical composition of compound of Formula (I) for the treatment of diseases or disorder mediated by GPR120.

21: 2017/00883. 22: 2017/02/03. 43: 2021/06/14

51: A61K; A61P; C07D

71: GlaxoSmithKline Intellectual Property (No. 2) Limited

72: ATKINSON, Stephen John, HIRST, David Jonathan, HUMPHREYS, Philip G., LINDON,

Matthew J., PRESTON, Alexander G., SEAL,
Jonathan Thomas, WELLAWAY, Christopher Roland
33: US 31: 62/049,449 32: 2014-09-12

54: TETRAHYDROQUINOLINE DERIVATIVES AS BROMODOMAIN INHIBITORS

00: -

The present invention relates to specific novel compounds, pharmaceutical compositions containing such compounds and to their use in therapy as bromodomain inhibitors.

21: 2017/00940. 22: 07/02/2017. 43: 2021/07/06
51: B02C

71: METSO MINERALS INDUSTRIES, INC.

72: KAJA, Dean, Michael

33: US 31: 14/463,185 32: 2014-08-19

54: TOP SERVICE CLAMPING CYLINDERS FOR A GYRATORY CRUSHER

00: -

A system and method for providing the required clamping force between an adjustment ring and bowl of a gyratory crusher is disclosed. The clamp ring includes a series of clamping cylinder assemblies that each are mounted to a top face of the clamp ring. Each of the clamping cylinder assemblies can be removed and replaced from the top surface of the clamp ring without requiring the removal of the clamp ring from the gyratory crusher. Each clamping cylinder assembly includes a mounting flange that is attached to the clamp ring through a series of connectors.

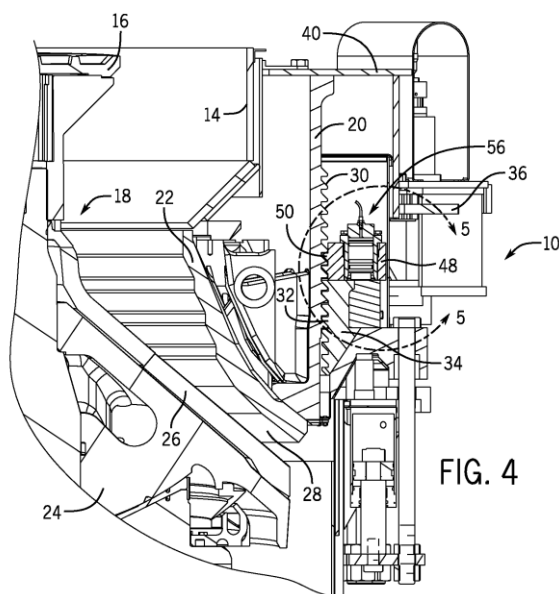


FIG. 4

21: 2017/01039. 22: 2017/02/10. 43: 2021/06/14
51: A61K; C07K; C12N

71: The Children's Hospital of Philadelphia,
SABATINO, Denise, HIGH, Katherine A., ELKOUBY,
Liron

72: SABATINO, Denise, HIGH, Katherine A.,
ELKOUBY, Liron

33: US 31: 62/036,936 32: 2014-08-13

54: AN IMPROVED EXPRESSION CASSETTE FOR PACKAGING AND EXPRESSION OF VARIANT FACTOR VIII FOR THE TREATMENT OF HEMOSTASIS DISORDERS

00: -

Factor VIII variants and methods of use thereof are disclosed. In particular embodiments, Factor VIII variants are expressed more efficiently by cells over wild-type Factor VIII proteins, are secreted at increased levels by cells over wild-type Factor VIII proteins, exhibit enhanced activity over wild-type Factor VIII proteins and are packaged more efficiently into viral vectors.

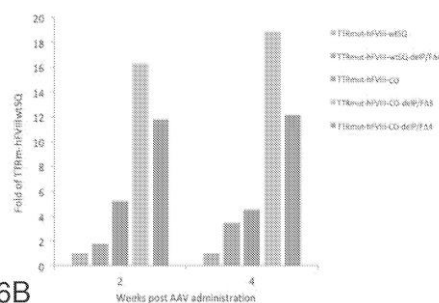


Fig. 6B

21: 2017/01070. 22: 2017/02/13. 43: 2021/06/14
51: F04D

71: Weir Minerals Australia Ltd

72: LUM, Michael, DOOLEY, Colin Robert

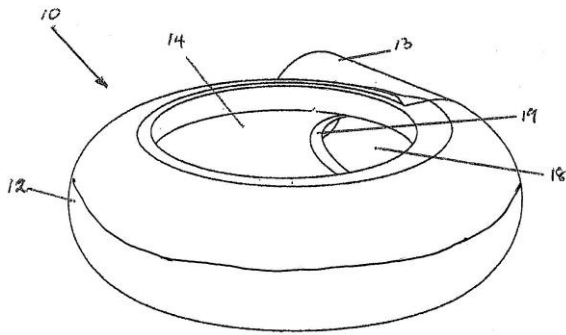
33: AU 31: 2014902958 32: 2014-07-31

54: PUMP LINER

00: -

A pump liner for a centrifugal pump wherein the pump liner comprises a main pumping chamber, an inlet to the main pumping chamber and a discharge outlet extending from the main pumping chamber, wherein the pump liner is formed from at least two elastomeric compounds including a first compound and a second compound, the first compound having a different hardness to the second compound and wherein the liner is composed of the second

compound at locations which in use are subject to erosive, impingement and/or directional wear.



21: 2017/01306. 22: 21/02/2017. 43: 2021/06/14
 51: G06F
 71: INTERNATIONAL BUSINESS MACHINES CORPORATION
 72: SLEGEL, Timothy, ALEXANDER, Khary Jason, BUSABA, Fadi, Yusuf, FARRELL, Mark, RELL JR, John, Gilbert
 33: US 31: 14/525,800 32: 2014-10-28
54: CONTROLLING EXECUTION OF THREADS IN A MULTI-THREADED PROCESSOR
 00: -

Execution of threads in a processor core is controlled. The processor core supports simultaneous multi-threading (SMT) such that there can be effectively multiple logical central processing units (CPUs) operating simultaneously on the same physical processor hardware. Each of these logical CPUs is considered a thread. In such a multi-threading environment, it may be desirable for one thread to stop other threads on the processor core from executing. This may be in response to running a critical sequence or other sequence that needs the processor core resources or is manipulating processor core resources in a way that other threads would interfere with its execution.

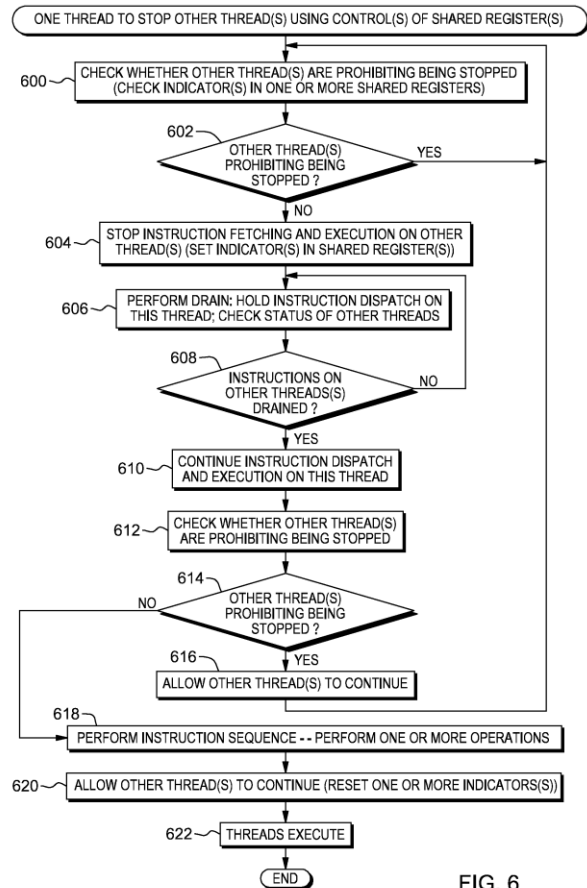
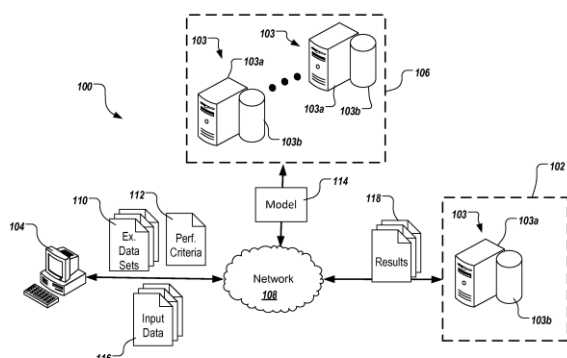


FIG. 6

21: 2017/01393. 22: 23/02/2017. 43: 2021/07/06
 51: G06N
 71: SHL US LLC
 72: AMINZADEH, Arya Ryan, ALEXANDER, Aman Cherian
 33: US 31: 62/041,378 32: 2014-08-25
54: CUSTOMIZABLE MACHINE LEARNING MODELS
 00: -

Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for customizable machine learning models. In some implementations, data is received, including (i) example data sets and (ii) data specifying one or more criteria to be assessed. Models are generated based on different combinations of features using training data sets comprising subsets of the example data sets. Output is obtained from the generated models, and one of the combinations of features is selected based on the outputs. The example data sets are used to train a classifier to evaluate input data with respect to the specified one or more

criteria based on input values corresponding to the features in the selected combination of features.



21: 2017/01430. 22: 2017/02/24. 43: 2021/06/14

51: E02F; F16B

71: ESCO Group LLC

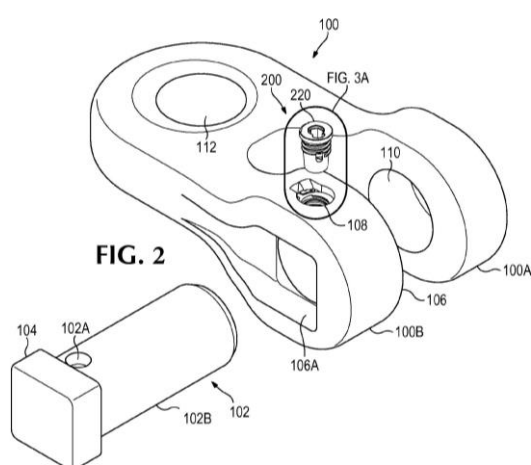
72: HEAPHY, Paul, DARE, Michael, QIAN, Junbo

33: US 31: 62/043,963 32: 2014-08-29

54: HAMMERLESS PIN ASSEMBLY

00: -

A pinned rigging component providing relative movement for a connected rigging component includes an integrated hammerless lock. An integral lock is retained in the body of the rigging component and releasably retains the pin in the component. The lock is recessed in the body and is not subject to significant wear during operation.



21: 2017/01648. 22: 2017/03/07. 43: 2021/06/23

51: E21C; E21D

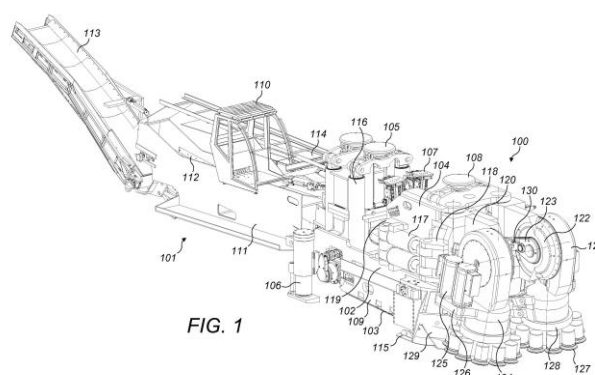
71: Sandvik Intellectual Property AB

72: EBNER, Bernhard, BRANDL, Erich

54: CUTTING APPARATUS

00: -

A cutting apparatus (100) suitable for creating tunnels and subterranean roadways. The apparatus comprises independently pivoting supports (120) that each carry a respective independently pivoting arm (121) and a rotatable cutting head (128). Each cutting head via the supports and arms, is configured to slew laterally outward in a sideways direction and to pivot in a vertical upward and downward direction. The supports and arms are mounted on a linear moving sled (104) carried by a main frame (102).



21: 2017/02638. 22: 12/04/2017. 43: 2021/06/22

51: A61K

71: THE SOUTH AFRICAN NUCLEAR ENERGY CORPORATION LIMITED, UNIVERSITY OF CAPE TOWN

72: DRIVER, CATHRYN HELENA STANFORD, ZEEVAART, JAN RIJN, PARKER, MOHAMED IQBAL, HUNTER, ROGER

33: GB 31: 1417067.4 32: 2014-09-26

54: RADIOPHARMACEUTICAL CONJUGATE OF A METABOLITE AND AN EPR AGENT, FOR TARGETING TUMOUR CELLS

00: -

This invention relates new radiopharmaceutical conjugates for use in improved methods of diagnosis and treatment of cancer. The radiopharmaceutical conjugate comprises, in sequence: a metabolite that targets tumour cells, bound to a chelating agent capable of containing a radionuclide, bound to a linker capable of binding with an EPR agent in vitro or in vivo; or a chelating agent capable of containing a radionuclide, bound to a metabolite that targets tumour cells, bound to a linker capable of binding with an EPR agent in vitro or in vivo. The radiopharmaceutical conjugates of the present

invention provide active and passive targeted radionuclide delivery systems that can help to improve the biodistribution and pharmacological toxicity of the radiopharmaceuticals used for the diagnosis and therapy of cancer.

21: 2017/03129. 22: 05/05/2017. 43: 2021/06/22
51: A01H
71: CIBUS US LLC, CIBUS EUROPE B.V.
72: GOCAL, GREGORY F W, BEETHAM, PETER R, DE SCHOPKE, AURA, DUMM, SARAH, PEARCE, JAMES, SCHOPKE, CHRISTIAN, WALKER, KEITH A
33: US 31: 61/370, 436 32: 2010-08-03
54: MUTATED PROTOPORPHYRINOGEN IX OXIDASE (PPX) GENES

00: -
Provided are compositions and methods relating to gene and/or protein mutations in transgenic or non-transgenic plants. In certain embodiments, the disclosure relates to mutations in the protoporphyrinogen IX (PPX) gene. In some embodiments the disclosure relates to plants that are herbicide resistant.

Figure 1: Amino acid sequence of *Arabidopsis thaliana* chloroplast protoporphyrinogen oxidase (PPX - A14g01690) (Accession # AX084732) (SEQ ID NO: 1)

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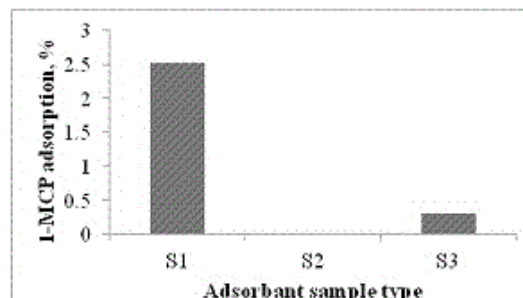
1  MELSLRPTTQGLLPQFSKYNLRVYKPLRLACSVAGGPTVGSKISQ
51  GOTTITDCVIVGGGIGLICIAQALATKHPDAAPXLYTEAKDRVOGNI
101  TREENKPLKEKIPNSPCPSDFMLTVVDSGLKDDVLGDTAPRFVLMNG
151  KLRVYPSKLTDLPPFDLHSIGCKIAGFGALGIRFSPFGRSESVKPVKR
201  NLGDEVFERLIEFFCQVYAGCPSKLNKAAGFKVAKLENGGSIIGGTF
251  KATQSRKAPKAERDFRLPKPQQQTGVSFRGGKRLPEATISARLQSNVGL
301  SSKLGGITKLEGGCNYLTETPDGLNVAQSKSVMTVPFHVAGLLAPLS
351  ESAANAGSKLYFFVAAYSISYFKKAIITSCLDGELRGFGQLHPTQGV
401  ETLGTYSESLFPNAPPCATLLNNTGGSTNTGILSKSPGQLVAVDRD
451  LRDELKINSTDFLKQVRYMPQALPQPLVGHFDILDTAKSSLSGGYEG
501  LFLQGNVAGVAGRCVQAYETALEVHNPHGRVAYK

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21: 2017/03161. 22: 08/05/2017. 43: 2021/06/14
51: A01N
71: AGROFRESH INC.
72: MIR, NAZIR
33: US 31: 14/726,004 32: 2015-05-29
33: US 31: 62/077,867 32: 2014-11-10
54: COMPLEXES OF 1-METHYLCYCLOPROPENE WITH METAL COORDINATION POLYMER NETWORKS

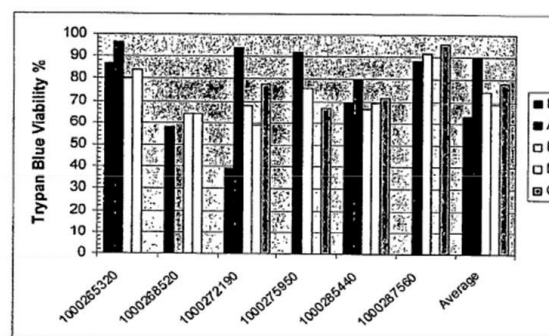
00: -
Disclosed are adsorption complexes that include 1-methylcyclopropene (1-MCP) and a metal coordination polymer network (MCPN), wherein the MCPN is a porous material, and the 1-MCP is adsorbed into the MCPN. Also disclosed are kits for containing 1-MCP that include the adsorption complex in a 1-MCP-impermeable package. Also

disclosed are methods of releasing 1-methylcyclopropene (1-MCP) from the kit that include the application of aqueous fluids, heat, and/or pressure.



21: 2017/03181. 22: 2017/05/08. 43: 2021/06/22
51: C12N
71: ANTHROGENESIS CORPORATION
72: EDINGER, JAMES W, HARIRI, ROBERT J, LABAZZO, KRISTEN S, WANG, JIA-LUN, YE, QIAN
33: US 31: 60/754,698 32: 2005-12-29
33: US 31: 60/846,641 32: 2006-09-22
54: PLACENTAL STEM CELL POPULATIONS

00: -
The present invention provides placental stem cells and placental stem cell populations, and methods of culturing, proliferating and expanding the same. The invention also provides methods of differentiating the placental stem cells. The invention further provides methods of using the placental stem cells in assays and for transplanting.



21: 2017/03207. 22: 09/05/2017. 43: 2021/06/14
51: A61K; A61P
71: BIOGEN MA INC.
72: NOVAS, MARK, ZHANG, RUI (RAY)

33: US 31: 62/232,963 32: 2015-09-25

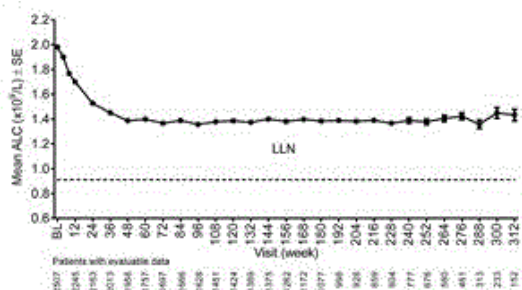
33: US 31: 62/080,783 32: 2014-11-17

33: US 31: 62/140,255 32: 2015-03-30

54: METHODS OF TREATING MULTIPLE SCLEROSIS

00: -

Provided herein are methods of treating multiple sclerosis with a fumarate, wherein the fumarate is a dialkyl fumarate, a monoalkyl fumarate, a combination of a dialkyl fumarate and a monoalkyl fumarate, a prodrug of monoalkyl fumarate, a deuterated form of any of the foregoing, or a pharmaceutically acceptable salt, clathrate, solvate, tautomer, or stereoisomer of any of the foregoing, or a combination of any of the foregoing. The methods provided herein improve the safety of treatment by informing and monitoring patients undergoing treatment regarding progressive multifocal leukoencephalopathy, and/or by monitoring lymphocyte count.



21: 2017/03412. 22: 17/05/2017. 43: 2021/06/14
51: C12Q
71: CALIFORNIA INSTITUTE OF TECHNOLOGY,
TALIS BIOMEDICAL CORPORATION
72: ISMAGILOV, RUSTEM , KHOROSHEVA,
EUGENIA, SCHLAPPI, TRAVIS, CURTIS,
MATTHEW S, SCHOEPP, NATHAN, MAAMAR,
HEDIA, SHEN, FENG, JUE, ERIK B

33: US 31: 62/075,648 32: 2014-11-05

54: MICROFLUIDIC MEASUREMENTS OF THE RESPONSE OF AN ORGANISM TO A DRUG

00: -

Disclosed herein are methods and devices for rapid assessment of whether a microorganism present in a sample is susceptible or resistant to a treatment.

21: 2017/03585. 22: 24/05/2017. 43: 2021/06/14

51: A61P

71: CALIDI BIOTHERAPEUTICS, INC.

72: SZALAY, ALADAR, MINEV, BORIS

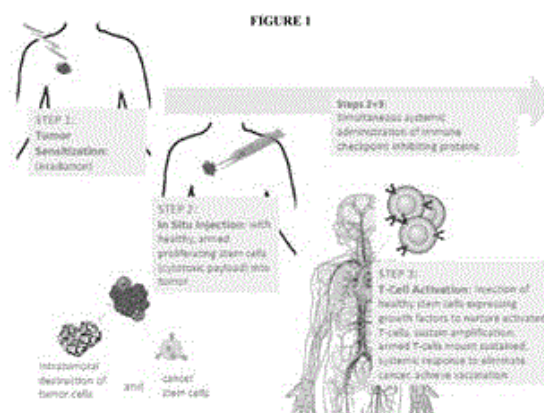
33: US 31: 62/068,557 32: 2014-10-24

33: US 31: 62/073,907 32: 2014-10-31

54: COMBINATION IMMUNOTHERAPY APPROACH FOR TREATMENT OF CANCER

00: -

Disclosed herein are methods and compositions related to combination therapy for cancer. More specifically, several treatment modalities are used in combination to induce an effective anti-tumor immune response. The present invention relates generally to the treatment of human cancer and, more specifically, to use of several treatment modalities in combination to induce effective anti-tumor immune responses.



21: 2017/03616. 22: 25/05/2017. 43: 2021/06/14

51: A24F

71: ALTRIA CLIENT SERVICES LLC

72: JUSTER, BERNARD C, LEVITZ, ROBERT

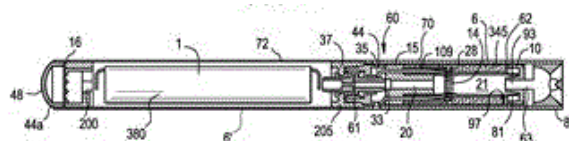
33: US 31: 62/084,122 32: 2014-11-25

54: METHOD AND DEVICE FOR EXECUTING AN EVAPING DEVICE OPERATING SYSTEM, PROGRAMMING LANGUAGE, AND APPLICATION PROGRAMMING INTERFACE

00: -

An electronic vaping device includes a housing extending in a longitudinal direction, the housing including a mouth-end and a connection-end, a reservoir containing a pre-vapor formulation, the reservoir in the housing, a heating element in the housing, the heating element in fluid communication with the reservoir, the heating element configured to generate a vapor, and a rechargeable battery configured to power at least the heating element and any other potential power consuming element(s) such as electronic circuits. The electronic vaping

device also includes a first memory having stored thereon computer readable instructions relating to an electronic vaping operating system (OS), and at least one processor configured to execute the OS computer readable instructions to execute the operating system, the operating system including a real-time kernel configured to operate the electronic vaping device, and execute object code related to electronic vaping device functionality.



21: 2017/04059. 22: 2017/06/13. 43: 2021/06/14
51: A61K; C07K; C12N

71: Bluebird Bio, Inc.

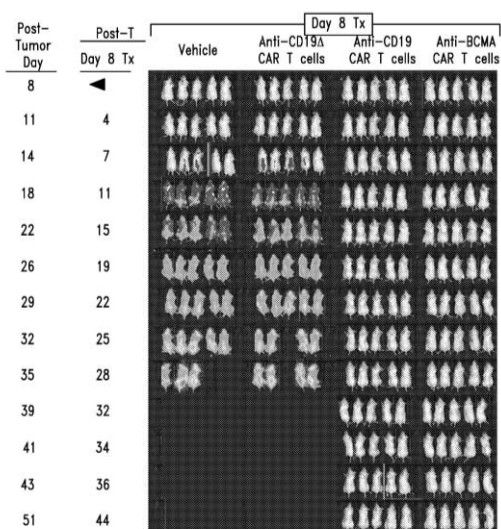
72: MORGAN, Richard, FRIEDMAN, Kevin

33: US 31: 62/091,419 32: 2014-12-12

54: BCMA CHIMERIC ANTIGEN RECEPTORS

00: -

The invention provides an isolated and purified nucleic acid sequence encoding a chimeric antigen receptor (CAR) directed against 8- cell Maturation Antigen (BCMA). The invention also provides for use of the chimeric antigen receptor in adoptive T cell therapies for B cell related conditions.



21: 2017/04173. 22: 19/06/2017. 43: 2021/06/23

51: A61K

71: GILEAD APOLLO, LLC.

72: HARRIMAN, GERALDINE C., HARWOOD, JAMES, GREENWOOD, JEREMY ROBERT, MASSE, CRAIG E., BHAT, SATHESH

33: US 31: 61/559,023 32: 2011-11-11

33: US 31: 61/615,092 32: 2012-03-23

33: US 31: 61/651,878 32: 2012-05-25

33: US 31: 61/675,513 32: 2012-07-25

54: ACC INHIBITORS AND USES THEREOF

00: -

The present invention provides compounds useful as inhibitors of Acetyl CoA Carboxylase (ACC), compositions thereof, and methods of using the same.

21: 2017/05228. 22: 02/08/2017. 43: 2021/08/05

51: F41A

71: RHEINMETALL AIR DEFENCE AG

72: RÜSCH, Andreas, MEIER, Raffael,

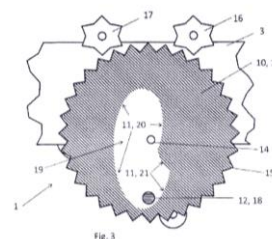
THALMANN, Matias

33: DE 31: 102015 003 322.0 32: 2015-03-17

54: RELEASE DEVICE FOR ACTUATING A TRIGGER LEVER OF A WEAPON

00: -

The invention relates to a release device (1) for actuating a trigger lever (2) of a weapon, wherein the trigger lever (2) is swivelably mounted, comprising an actuating means (10), wherein a shot can be released by swivelling the trigger lever (2), wherein the actuating means (10) cooperates in a functionally effective manner with the trigger lever (2). The weapon can be made such that it can be operated remotely, wherein oscillations and vibrations of the actuating means (10) can be reduced and the precision of the weapon can be increased, in that the actuating means (10) has an infinite control curve (11), wherein the actuating means (10) can be driven in a rotatory manner by a drive, wherein the trigger lever (2) cooperates with the control curve (11) by means of a guide means (12).



21: 2017/05356. 22: 2017/08/08. 43: 2021/07/06

51: H02K

71: ALSTOM TRANSPORT TECHNOLOGIES

72: DUBOIS, Philippe, KANIA, Xavier, LOMBARD, Jean-Pierre

33: FR 31: 16 57729 32: 2016-08-11

54: ELECTRIC MOTOR COMPRISING A STRONG ACOUSTIC ATTENUATION DEVICE

00: -

This motor (10) includes: - a frame (12) defining an inner space (VI) in which a rotor (14), a stator (16) and a fan (30) are housed, the frame (12) comprising: • a first opening (22) placing the inner space (VI) of the frame (12) in fluid communication with the outside of the frame (12), • a second opening (24) placing the inner space (VI) of the frame (12) in fluid communication with the outside of the frame (12) along a radial axis (R) substantially perpendicular to a rotation axis (X) of the rotor, - the fan (30) being arranged near the second opening (24) and being configured to create a flow (F) of a gaseous fluid. A first acoustic attenuation device (40) is housed in the second opening (24) so as to partially close the second opening (24).

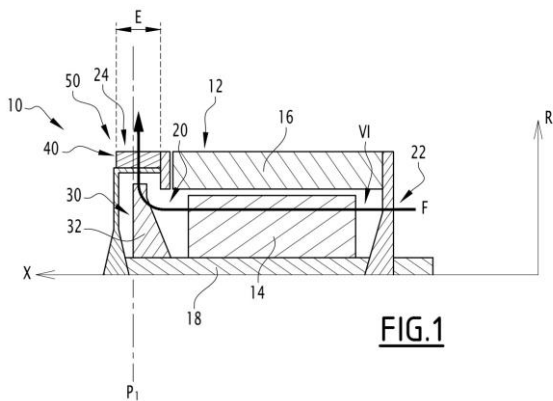


FIG.1

21: 2017/05357. 22: 2017/08/08. 43: 2021/07/06

51: H02K

71: ALSTOM TRANSPORT TECHNOLOGIES

72: DUBOIS, Philippe, MAS, Thomas, RANDRIA, Andry-Mamy, SCHERER, Michel, LOMBARD, Jean-Pierre

33: FR 31: 16 57730 32: 2016-08-11

54: ELECTRIC MOTOR COMPRISING AN ACOUSTIC ATTENUATION DEVICE

00: -

The electric motor (10) includes: - a frame (12) defining an inner volume (VI) wherein is accommodated a rotor (14), a stator (16) and a fan (30), the frame (12) comprising - a first aperture (22)

placing the inner volume (VI) of the frame (12) in fluidic communication with the outside of the frame (12), - a second aperture (24) placing the internal volume (VI) of the frame (12) in fluidic communication with the outside of the frame (12) along a radial axis (R) substantially perpendicular to an axis of rotation (X) of the rotor, - the fan (30) being positioned in proximity to the second aperture (24) and being configured for generating a gas fluid flow (F). At least one acoustic attenuation device (40) is accommodated in the second aperture (24) so as to partly close the second aperture (24).

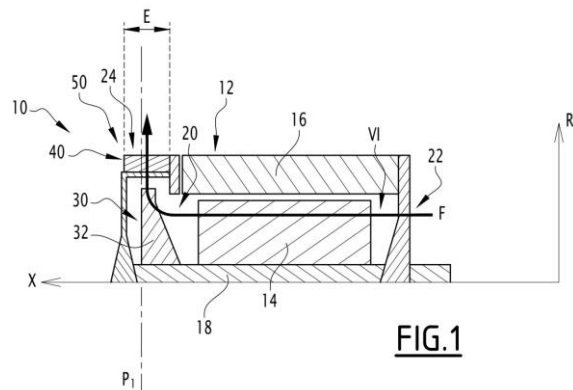


FIG.1

21: 2017/06028. 22: 05/09/2017. 43: 2021/06/14

51: F03B; H02K

71: HYDROKINETIC ENERGY CORP

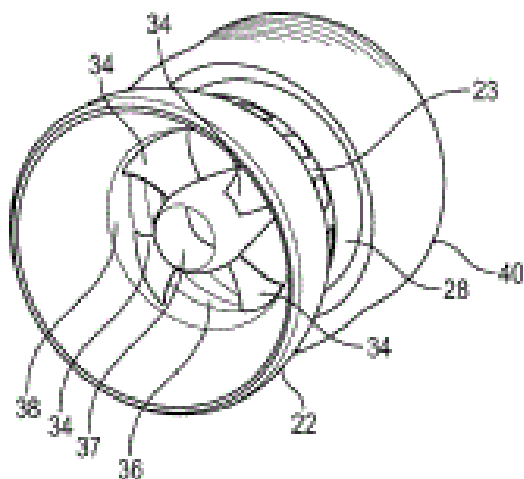
72: SCHURTENBERGER, Walter

33: US 31: 62/115,540 32: 2015-02-12

54: HYDROELECTRIC/HYDROKINETIC TURBINE AND METHODS FOR MAKING AND USING SAME

00: -

The application relates to unidirectional hydrokinetic turbines having an improved flow acceleration system that uses asymmetrical hydrofoil shapes on some or all of the key components of the turbine. These components that may be hydrofoil shaped include, e.g., the rotor blades (34), the center hub (36), the rotor blade shroud (38), the accelerator shroud (20), annular diffuser(s) (40), the wildlife and debris excluder (10, 18) and the tail rudder (60). The fabrication method designs various components to cooperate in optimizing the extraction of energy, while other components reduce or eliminate turbulence that could negatively affect other component(s).



21: 2017/06241. 22: 2017/09/13. 43: 2021/06/14

51: A61K; C07K

71: PFIZER INC.

72: HO, Wei-Hsien, LIU, Shu-Hui, PERNASETTI, Flavia, Mercer

33: US 31: 61/861,706 32: 2013-08-02

54: ANTI-CXCR4 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES

00: -

The present invention provides antibodies and related molecules that bind to chemokine receptor 4 (CXCR4). The invention further provides antibody-drug conjugates comprising such antibodies, antibody encoding nucleic acids, and methods of obtaining such antibodies. The invention further relates to therapeutic methods for use of these antibodies and anti-CXCR4 antibody-drug conjugates for the treatment of a disorder associated with CXCR4 function or expression (e.g., cancer), such as colon, RCC, esophageal, gastric, head and neck, lung, ovarian, pancreatic cancer or hematological cancers.

21: 2017/06579. 22: 29/09/2017. 43: 2021/06/22

51: A61M; A24F

71: ALTRIA CLIENT SERVICES LLC

72: HAWES, ERIC, LAU, RAYMOND, SHARP, BEN

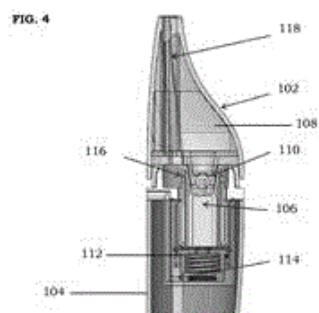
33: US 31: 62/151,248 32: 2015-04-22

54: E-VAPOR DEVICES INCLUDING PRE-SEALED CARTRIDGES

00: -

An e-vapor device (100) may include a cartridge (108) configured to hold a vapor precursor therein. The e-vapor device may additionally include a

dispensing body (104) including a ratchet assembly (112) and configured to receive a vaporizer (106) to interact with the ratchet assembly. The vaporizer is configured to access the vapor precursor in the cartridge via a coupling action and to heat the vapor precursor to generate a vapor. The ratchet assembly is configured to undergo a mechanical incrementation with each coupling action to facilitate a simultaneous removal of the cartridge with the vaporizer coupled thereto after a designated number of coupling actions. Accordingly, the overuse of the vaporizer and the adverse sensory effects associated therewith can be reduced or prevented.



21: 2017/07212. 22: 24/10/2017. 43: 2021/06/14

51: A61K; A61P

71: ENANTA PHARMACEUTICALS, INC.

72: WANG, Guoqiang, OR, Yat, Sun, SHEN, Ruichao, XING, Xuechao, LONG, Jiang, DAI, Peng, GRANGER, Brett, HE, Jing

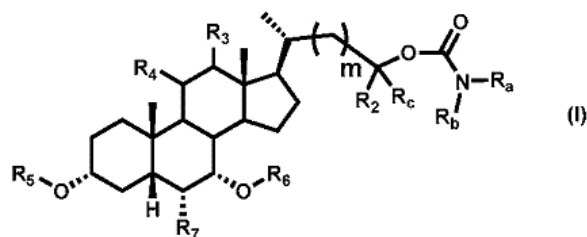
33: US 31: 62/140,927 32: 2015-03-31

33: US 31: 62/287,267 32: 2016-01-26

54: BILE ACID DERIVATIVES AS FXR/TGR5 AGONISTS AND METHODS OF USE THEREOF

00: -

The present invention provides compounds represented by Formula I, or pharmaceutically acceptable salts, stereoisomers, solvates, hydrates or combination thereof, (I). The invention also provides pharmaceutical compositions comprising these compounds and methods of using this compounds for treating FXR-mediated or TGR5-mediated diseases or conditions.



21: 2017/07852. 22: 20/11/2017. 43: 2021/07/06
51: A61K; A61P

71: NMD PHARMA A/S.

72: HOLM PEDERSEN, Thomas, BROCH-LIPS, Martin, ELSBORG OLESEN, Claus, LABELLE, Marc, BÆKGAARD NIELSEN, Ole

33: US 31: 62/175,590 32: 2015-06-15

54: COMPOUNDS FOR USE IN TREATING NEUROMUSCULAR DISORDERS

00: -

The present invention relates to compositions comprising compounds for use in treating, ameliorating and/or preventing neuromuscular disorders. The compounds as defined herein preferably inhibit the CIC-1 ion channel. The invention further relates to methods of treating, preventing and/or ameliorating neuromuscular disorders, by administering said composition to a person in need thereof.

21: 2017/08384. 22: 2017/12/11. 43: 2021/06/14
51: B01D; C01D; C02F; C25B; C25C

71: Spraying Systems Co.

72: CRONCE, Keith L., WILLIAMS, John Tyler, ADAMS, Robert

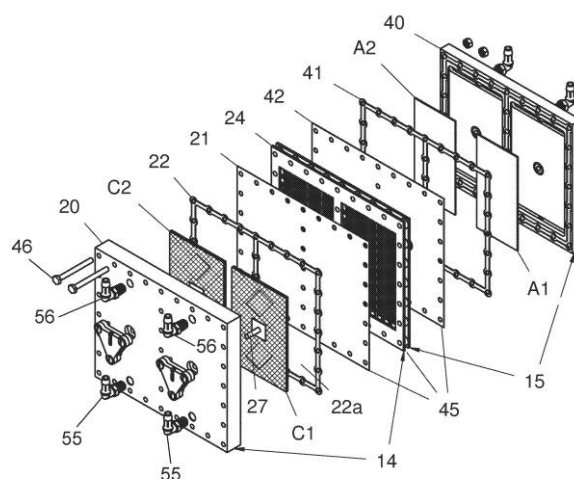
33: US 31: 62/174,791 32: 2015-06-12

54: HIGH VOLUME WATER ELECTROLYZING SYSTEM AND METHOD OF USING

00: -

An electrolyzing system is provided for producing higher quantities of electrolyzed waters within prescribed pH ranges for optimum usage and which can be operated for producing greater quantities of alkaline electrolyzed water than acidic electrolyzed water consistent with a users requirements. The system includes an electrolytic cartridge having cathode and anode cells each comprising a pair of electrodes disposed in laterally spaced coplanar relation to each other, with a respective ion permeable membrane in spaced relation to the pairs of electrodes. The cells are separated with a

common separator plate that maintains the ion permeable membranes in parallel relation with the respective electrodes and which facilitates the communication of brine solution from a brine bath to both cells. The cells further can be operate with staggered input currents and the redirection of electrolyzed water between the cells for optimum control of pH levels of the resulting products.



21: 2017/08543. 22: 2017/12/15. 43: 2021/08/05
51: F16K

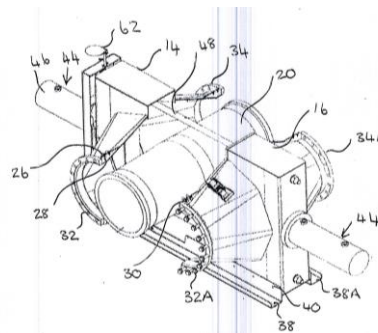
71: REDART ENGINEERING (PTY) LTD

72: SESSIONS, Michael

54: PINCH VALVE

00: -

A pinch valve which includes first and second frame members which, when secured together, form an enclosure for a flexible tubular sleeve, and an actuator attached to the first frame member, operable to separate the frame members in a horizontal direction to allow access to the sleeve.

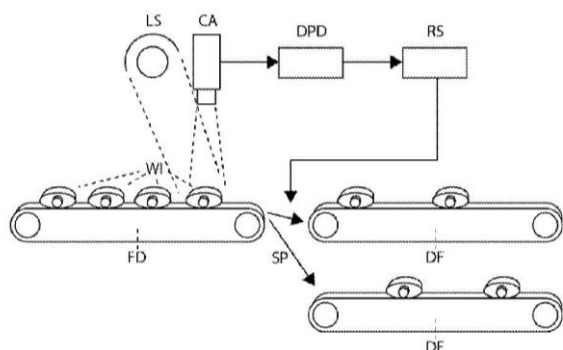


21: 2017/08549. 22: 15/12/2017. 43: 2021/06/14
51: B07C

71: FILIGRADE B.V.

72: KERVER, Johannes, Bernardus
 33: NL 31: 2014986 32: 2015-06-18
54: WASTE SEPARATION METHOD
 00: -

A method of waste separation comprises irradiating the waste by a source of radiation, capturing an image of the waste when irradiated by the source of radiation; wherein an item in the waste is provided with a pattern, the pattern being provided in or on a surface of the item, the pattern forming a repetition of dots, a code being stored in a sequence of adjacent ones of the dots, processing the image to detect the pattern; deriving the code from the sequence of adjacent ones of the dots of the pattern; separating in accordance with the code the item comprising the pattern from the waste. The pattern may be a relief pattern. The relief pattern may comprise a pattern of bumps and recesses. The pattern, such as in a form of a relief, may also be applied to identify the item. The item may be a manufactured item, such as package, e.g. a bottle, as tray or a foil, or any other item. The source of radiation provides floodlight irradiation along at least part of the surface of the item. Each dot forms a bump or recess of the surface of the item, the floodlight irradiation along at least part of the surface of the item forming by the dots an image of highlights and shades on the surface of the item. The capturing the image of the waste when irradiated by the source of radiation comprises capturing the image of highlights and shades, and the code is derived from the captured image of highlights and shades.



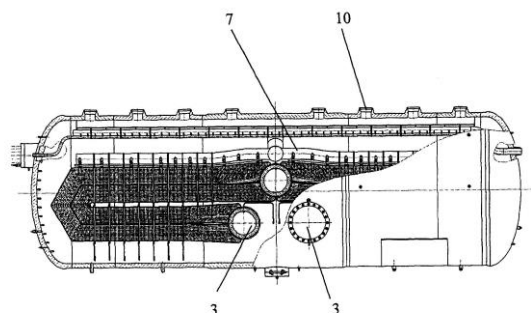
21: 2017/08700. 22: 2017/12/20. 43: 2021/06/14
 51: F22B
 71: Joint Stock Company "Experimental and Design Organization "Gidropress" Awarded the Order of the Red Banner of Labour and, Joint Stock Company

"Science and Innovations" ("Science and Innovations", JSC)
 72: LAKHOV, Dmitriy Aleksandrovich, GRITSENKO, Andrey Alekseevich
 33: RU 31: 2015126931 32: 2015-07-07

54: STEAM GENERATOR

00: -

The invention relates to steam generators for nuclear power plants. The present steam generator comprises a horizontal housing, a primary loop inlet header and a primary loop outlet header, which are arranged horizontally, heat exchange tubes, which are arranged in vertical planes, and a feedwater dispensing device. The invention is directed toward reducing thermohydraulic inequality in a steam generator, achieving better filling of the steam generator with heat exchange tubes, and reducing the concentration of corrosive impurities in the region of the weld seam between the primary loop headers and the horizontal housing.



21: 2018/00399. 22: 2018/01/19. 43: 2021/06/22
 51: E02F

71: Black Cat Blades Ltd.

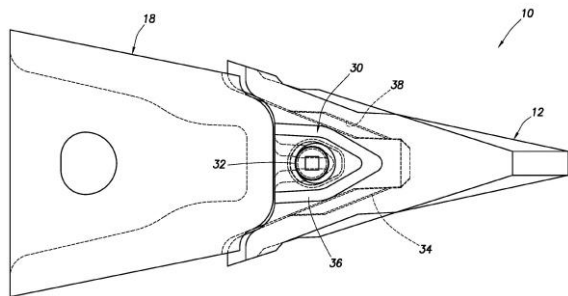
72: RUVANG, John A.

54: SECUREMENT OF A WEAR MEMBER TO AN EXCAVATION IMPLEMENT

00: -

A wear member attachment system for use with an excavation implement can include a connector that releasably secures a wear member to the excavation implement, the connector including an elongated housing and engagement members extendable and retractable relative to the housing. One engagement member can extend relative to the housing when another engagement member retracts relative to the housing, and vice versa. A method of releasably securing a wear member to an excavation implement can include rotating a engagement member of a connector from an extended position in

which opposing slots in the engagement member are aligned with respective projections in the wear member, to a retracted position in which the slots are not aligned with the projections. The rotating step can include extending another engagement member of the connector as the first connector displaces from the extended position to the retracted position.



21: 2018/00689. 22: 2018/02/01. 43: 2021/06/07
51: A61K; A61P; C07D

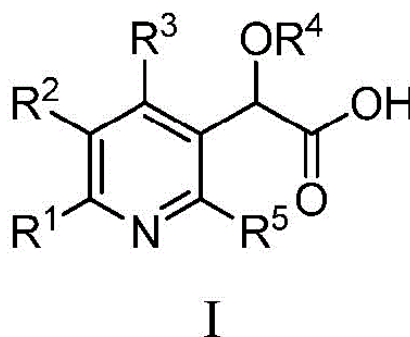
71: ViiV Healthcare UK (No.5) Limited

72: EASTMAN, Kyle J., KADOW, John F.,
PARCELLA, Kyle E., NAIDU, B. Narasimhulu,
WANG, Tao, YIN, Zhiwei, ZHANG, Zhongxing
33: US 31: 62/203,791 32: 2015-08-11

**54: 5-(N-BENZYL TETRAHYDROISOQUINOLIN-6-
YL) PYRIDIN-3-YL ACETIC ACID DERIVATIVES
AS INHIBITORS OF HUMAN
IMMUNODEFICIENCY VIRUS REPLICATION**

00: -

Disclosed are compounds of Formula (I), including pharmaceutically acceptable salts, pharmaceutical compositions comprising the compounds, methods for making the compounds and their use in inhibiting HIV integrase and treating those infected with HIV or AIDS. In the compounds of formula (I), R¹ is selected from hydrogen, alkyl, or cycloalkyl; R² is selected from tetrahydroisoquinolinyl and is substituted with 1 R³ substituent and also with 0-3 halo or alkyl substituents; R³ is selected from azetidiny, pyrrolidinyl, piperidinyl, piperazinyl, morpholinyl, homopiperidinyl, homopiperazinyl, or homomorpholinyl, and is substituted with 0-3 substituents selected from cyano, halo, alkyl, haloalkyl, alkoxy, and haloalkoxy; R⁴ is selected from alkyl or haloalkyl; R⁵ is alkyl; R⁶ is selected from Ar¹, (Ar¹)alkyl, (chromanyl)alkyl, cyanocycloalkyl or (dihydrobenzodioxinyl)alkyl; and Ar¹ is phenyl substituted with 0-5 substituents selected from cyano, halo, alkyl, cycloalkyl, haloalkyl, hydroxy, alkoxy, haloalkoxy, (hydroxy)alkoxy, (alkoxy)alkoxy, phenoxy, benzyloxy, carboxy, phenyl, and cyanocycloalkyl.



21: 2018/00783. 22: 2018/02/06. 43: 2021/06/23
51: B23K

71: TMS International Corporation

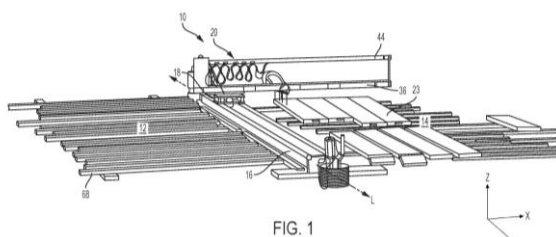
72: SCHUTZ, Timothy G., JUNG, Joseph H.

33: US 31: 62/209,475 32: 2015-08-25

54: TORCH CUTTING MACHINE

00: -

A torch cutting machine comprising a longitudinal travel way, a main carriage that travels along the travel way, and a boom assembly extending from the main carriage perpendicular to the travel way, the boom assembly comprising at least one cutting torch extending from a main boom. The boom assembly is rotatable with respect to the main carriage. Also, a method of cutting metal material where a boom of a torch cutting machine having a cutting torch extending therefrom, is placed over metal material in a first cutting bed, which is cut by moving the cutting torch. The boom is rotated 180° and positioned over material in a second cutting bed, which is cut in the same manner. Cut material is removed from the first cutting bed and new material is placed in the first cutting bed while the cutting of the material in the second cutting bed is being performed.



21: 2018/00826. 22: 2018/02/08. 43: 2021/06/14
51: A61K; A61P; C07D

71: Bayer Pharma Aktiengesellschaft
 72: JIMENEZ NUNEZ, Eloisa, ACKERSTAFF, Jens, RÖHRIG, Susanne, HILLISCH, Alexander, MEIER, Katharina, HEITMEIER, Stefan, TERSTEEGEN, Adrian, STAMPFUSS, Jan, ELLERBROCK, Pascal, MEIBOM, Daniel, LANG, Dieter

33: EP(DE) 31: 15176099.8 32: 2015-07-09

54: SUBSTITUTED OXOPYRIDINE DERIVATIVES

00: -

The invention relates to substituted oxopyridine derivatives and to processes for their preparation, and also to their use for preparing medicaments for the treatment and/or prophylaxis of diseases, in particular cardiovascular disorders, preferably thrombotic or thromboembolic disorders, and o edemas, and also ophthalmic disorders.

21: 2018/01006. 22: 2018/02/14. 43: 2021/06/14

51: H02S

71: Saint-Augustin Canada Electric Inc.

72: WANKA, Sven, NEUBAUER, Martin

33: DE 31: 102015213305.2 32: 2015-07-15

54: OPTICAL LIGHT-TRANSMISSION ELEMENT FOR A SOLAR ENERGY ASSEMBLY COMPRISING A HARVESTING PORTION AND AN ALIGNMENT CONTROL PORTION, AND METHOD FOR ALIGNMENT OF SUCH

00: -

The invention relates to an optical light-transmission element (1) for a solar energy assembly (2) having a solar cell (7). The optical light-transmission element (1) comprises at least one harvesting portion (14) for directing solar light (4) onto the solar cell (7). For optimum operation of the solar energy assembly (2), the optical light-transmission element (1) and the solar cell (7) have to be carefully aligned. In order to facilitate the alignment, the optical light-transmission element (1) further comprises at least one alignment control portion (16) for concentrating the solar light (4) onto a second focusing region (17), which is spaced apart from the primary focusing region (18). The method according to the invention provides to align the second focusing region (17) with a target zone (23) which is spaced apart from the solar cell (7).

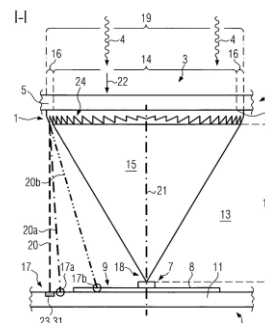


FIG. 1

21: 2018/01038. 22: 2018/02/15. 43: 2021/06/14

51: A61K; A61Q

71: Colgate-Palmolive Company

72: REGE, Aarti, SURIANO, David, SULLIVAN, Richard

54: ORAL CARE COMPOSITIONS

00: -

An oral care composition comprising at least one metal phosphate chosen from stannous phosphate, magnesium phosphate or aluminum phosphate; and at least one fluoride ion source. The at least one phosphate is added to the oral care composition as a preformed salt. Methods of administering the oral care composition to a subject are also disclosed.

21: 2018/01163. 22: 2018/02/20. 43: 2021/06/14

51: B24D

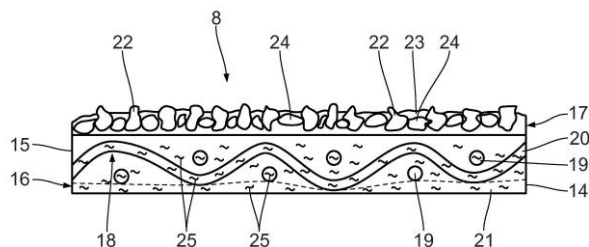
71: August Rüggeberg GmbH & Co. KG

72: STUCKENHOLZ, Bernd, WALDER, Peter

54: ABRASIVE TOOL AND METHOD FOR PRODUCING AN ABRASIVE TOOL OF THIS KIND

00: -

A grinding tool comprises a base on which a plurality of grinding blades (8) is arranged. The grinding blades (8) each include a substrate (16) and abrasive (22) that is bonded to the substrate (16) by means of a binder (23). In order to increase the service life and the total amount of material that is removed, the grinding blades (8) are reinforced by a filler resin (25). Since the grinding blades (8) are reinforced, their cyclic deflection about a zero position caused by workpiece machining operations is reduced, thereby preventing excessive wear of the grinding blades (8).



21: 2018/01338. 22: 2018/02/27. 43: 2021/06/14
51: A61K

71: Bayer Animal Health GmbH

72: ABRAHAM, Albert, NICKELL, Jason, KEIL, Daniel, WEISS, Christian

33: US 31: 62/199,848 32: 2015-07-31

54: ENHANCED IMMUNE RESPONSE IN PORCINE SPECIES

00: -

The present invention generally relates to methods of eliciting an immune response in a porcine species subject. In particular, an immunomodulator composition is used to induce an immune response to enhance the subject's ability to fight infectious pathogens.

21: 2018/01734. 22: 2018/03/14. 43: 2021/06/22
51: E21D

71: NCM INNOVATIONS (PTY) LTD

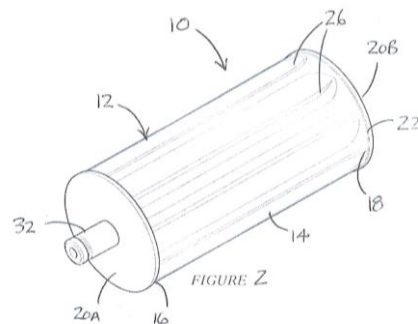
72: CROMPTON, Brendan Robert, VISSER, Henri

33: ZA 31: 2017/01805 32: 2017-03-14

54: INFLATABLE PLUG FOR A BOREHOLE

00: -

An inflatable borehole plug which includes a pressure vessel body which comprises a tubular sidewall of a resiliently deformable material, closed at each end of a respective end wall, and at least one fluid input valve penetrating one of the end walls, wherein the tubular sidewall is formed with a plurality of undulations, each of which extends longitudinally, at least partially, between the walls.



21: 2018/02126. 22: 03/04/2018. 43: 2021/06/14
51: C12N

71: YANG, TAO

72: YANG, TAO, SUI, YI

33: CN 31: 201710632172.4 32: 2017-07-28

54: A NEURAL CELL LINE DIFFERENTIATED FROM HIPSCS BY DIRECTED INDUCTION, A METHOD FOR INDUCTION AND THE APPLICATION THEREOF

00: -

The invention discloses a neural cell line differentiated from hiPSCs by directed induction, a method of induction and the application thereof. The method of the invention comprises culturing the hiPSCs in stages for inducing neural differentiation of the hiPSCs, and said stages comprises: Stage a. co-culturing the hiPSCs and bone marrow stromal cells HS5 in an induction medium; Stage b. culturing the hiPSCs continuously with HS5 conditioned medium; Stage c. further culturing the hiPSCs with basal medium for culturing neuronal cells. The method of the invention induced the directed differentiation of the human hiPSC cells into nervous system cells, meanwhile inhibited the production of non-nervous system cells to obtain mature, broad-spectrum neural cell populations. The neural cell population has not only been validated as a mature neuron with electrical impulses release in vitro but also proved to be effective in the treatment of neurological disorders (such as stroke and brain damage) in mice in vivo experiment.

21: 2018/02868. 22: 02/05/2018. 43: 2021/06/14
51: B01D; D04H; D21H

71: OY HALTON GROUP LTD.

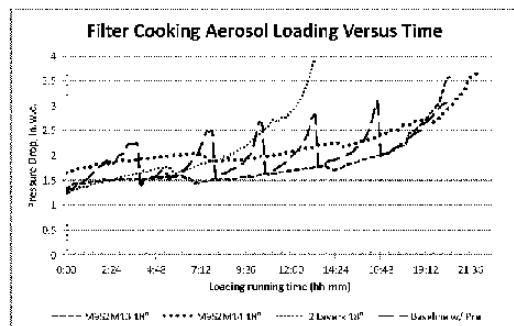
72: PARVIN, Fuoad, A., OLSON, Bernard, A., LIVCHAK, Andrey, V.

33: US 31: 62/239,844 32: 2015-10-09

54: FILTER DEVICES METHODS AND SYSTEM

00: -

A pocket filter adapted for filtering grease and other liquid aerosols has first and second depth loading media with a separator that prevents wicking thereby to extend filter life and capacity. The first layer is also of lower efficiency than the second to distribute loading and further extend life. The spacer may be of unwoven fiber mesh. Various feature of the pocket filter ensure free flow of effluent streams.



21: 2018/02889. 22: 2018/05/03. 43: 2021/07/01
51: G06F; G10L; H04L

71: NKAMBULE, Hezekiel Jabulane

72: NKAMBULE, Hezekiel Jabulane

33: ZA 31: 2017/00859 32: 2017-02-03

54: HOME AND INDUSTRIAL AUTOMATION SYSTEM

00: -

A home and industrial automation system is disclosed comprising a master device having a master wireless module; and a plurality of slave devices, each associated with an appliance or equipment that can be controlled by the master device. Each slave device has a slave wireless module that can communicate with the master device to receive operating signals from the master wireless module, in order to selectively control or operate the appliance or equipment. In an embodiment, the master wireless module is either a wifi module or a GSM/Bluetooth/GPRS module. In an embodiment, the master device includes a network module to enable a group of computers and/or associated devices that share a common communications line or wireless link to the master device.

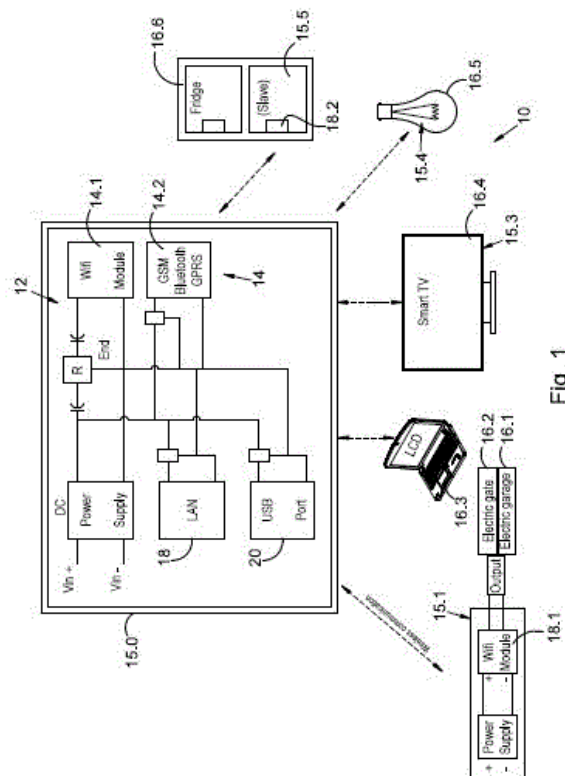


Fig. 1

21: 2018/03011. 22: 08/05/2018. 43: 2021/06/14
51: A61K; A61Q

71: UNILEVER PLC

72: CHANG, SHAO KUN, LIU, JINGJING, PI, YINGYING, SUBRAMANIAN, RAGHUPATHI

33: CN 31: PCT/CN2015/096858 32: 2015-12-09

33: EP 31: 16157052.8 32: 2016-02-24

54: HAIR CARE COMPOSITION

00: -

This invention relates to a hair care composition which provides the desired anti-dandruff efficacy with uniform deposition of the active materials on hair/scalp. This is achieved through a judicious combination of a specific cationic deposition polymer and selective anti-dandruff agent of the right particle size.

21: 2018/03115. 22: 11/05/2018. 43: 2021/06/14
51: C22C; C22F

71: NOVELIS INC.

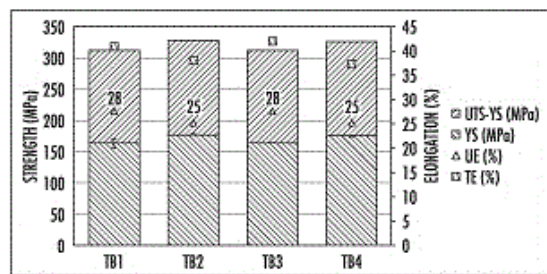
72: WEN, WEI, AHMED, HANY, KAMAT, RAJEEV G, BASSI, CORRADO, FLOREY, GUILLAUME, BEZENCON, CYRILLE, TIMM, JUERGEN, LEYVRAZ, DAVID, DESPOIS, AUDE, DAS, SAZOL KUMAR

33: US 31: 62/269,385 32: 2015-12-18

54: HIGH-STRENGTH 6XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME

00: -

Disclosed are high-strength aluminum alloys and methods of making and processing such alloys. More particularly, disclosed is a 6XXX series aluminum alloy exhibiting improved mechanical strength, formability, corrosion resistance, and anodized qualities. An exemplary method includes homogenizing, hot rolling, solutionizing, and quenching. In some cases, the processing steps can further include annealing and/or cold rolling.



TENSILE PROPERTIES OF TB1-TB4 ALLOYS IN T4 TEMPER

21: 2018/03367. 22: 21/05/2018. 43: 2021/06/22

51: C07D; A61K; A61P

71: MERCK PATENT GMBH

72: SHERER, BRIAN A, BRUGGER, NADIA

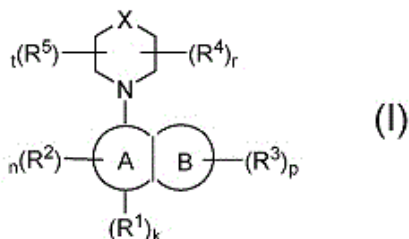
33: US 31: 62/268,765 32: 2015-12-17

33: US 31: 62/353,603 32: 2016-06-23

54: POLYCYCLIC TLR7/8 ANTAGONISTS AND USE THEREOF IN THE TREATMENT OF IMMUNE DISORDERS

00: -

The present invention relates to compounds of Formula (I) and pharmaceutically acceptable compositions thereof, useful as toll-like receptor 7/8 (TLR7/8) antagonists. In Formula (I), Ring A is aryl or heteroaryl; Ring B is aryl or heteroaryl; and X is C(R⁴)₂, O, NR⁴, S, S(R⁴), or S(R⁴)₂.



21: 2018/03455. 22: 2016/12/19. 43: 2021/06/14

51: B22F; C22C; B33Y

71: ELEMENT SIX GMBH

72: KONYASHIN, IGOR YURIEVICH, RIES, BERND HEINRICH, HINNERS, HAUKE

33: GB 31: 1522503.0 32: 2015-12-21

54: METHOD OF MANUFACTURING A CEMENTED CARBIDE MATERIAL

00: -

A method of fabricating a cemented carbide article by additive manufacturing, and a granular material are disclosed. A precursor material is provided that comprises granules, the granules comprising carbide grains and a binder comprising any of cobalt, nickel and iron. Each granule has a density of at least 99.5% of the theoretical density and the granules of the precursor material have a mean compressive strength of at least 40 megapascals (MPa). An additive manufacturing process is used to manufacture the article by building up successive layers of material derived from the precursor material.

S1. Provide granular precursor material including carbide grains and binder, granules having density at least 99.5% theoretical density and mean compressive strength 40 MPa

S2. Use granules in additive manufacturing process to fabricate cemented carbide article

21: 2018/03530. 22: 28/05/2018. 43: 2021/06/14

51: C07D; A61K

71: BLUEPRINT MEDICINES CORPORATION

72: WENGLOWSKY, STEVEN MARK, MIDUTURU, CHANDRASEKHAR V, BIFULCO, NEIL JR, KIM, JOSEPH L

33: US 31: 62/257,476 32: 2015-11-19

54: COMPOUNDS AND COMPOSITIONS USEFUL FOR TREATING DISORDERS RELATED TO NTRK

00: -

This invention relates to inhibitors of NTRK comprising a pyrazolo[1,5-4]pyrimidine-3-carbonitrile structure. They are active against wild-type NTRK and its resistant mutants.

21: 2018/04770. 22: 2018/07/17. 43: 2021/06/14

51: A61K; A61P; C07D; C07F

71: Les Laboratoires Servier, Vernalis (R&D) Limited

72: PACZAL, Attila, SZLÁVIK, Zoltán, KOTSCHY, András, CHANRION, Maia, MARAGNO, Ana Leticia,

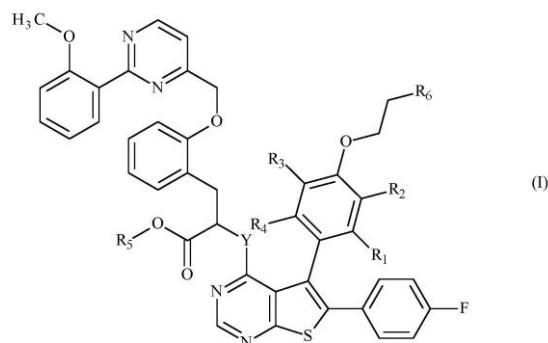
GENESTE, Olivier, DEMARLES, Didier, BÁLINT, Balázs, SIPOS, Szabolcs

33: FR 31: 16/50411 32: 2016-01-19

54: NEW AMMONIUM DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

00: -

The invention provides antibodies that specifically bind human β -synuclein with a high affinity and reduces β -synuclein spreading in vivo, recombinant polypeptides comprising said antibodies or antigen-binding fragment thereof and methods for generating such polypeptides, as well as compositions and methods for generating β -synuclein antibodies, and methods of using β -synuclein antibodies for the treatment of diseases of the central nervous system, in particular alpha-synucleinopathies.



21: 2018/05369. 22: 2018/08/13. 43: 2021/06/14

51: A01K; C07K; C12N

71: REGENERON PHARMACEUTICALS, INC.

72: BABB, ROBERT, McWHIRTER, JOHN, MACDONALD, LYNN, STEVENS, SEAN, DAVIS, SAMUEL, BUCKLER, DAVID R., MEAGHER, KAROLINA A., MURPHY, ANDREW, J.

33: US 31: 13/798,455 32: 2013-03-13

54: MICE EXPRESSING A LIMITED IMMUNOGLOBULIN LIGHT CHAIN REPERTOIRE

00: -

A genetically modified mouse is provided, wherein the mouse expresses an immunoglobulin light chain repertoire characterized by a limited number of light chain variable domains. Mice are provided that present a choice of two human light chain variable gene segments such that the immunoglobulin light chains expressed by the mouse comprise one of the two human light chain variable gene segments. Methods for making bispecific antibodies having universal light chains using mice as described herein, including human light chain variable regions, are provided. Methods for making human variable regions suitable for use in multispecific binding proteins, e.g., bispecific antibodies, and host cells are provided.

21: 2018/05986. 22: 2018/09/06. 43: 2021/06/14

51: A61B

71: Wuxi Hisky Medical Technologies Co., Ltd.

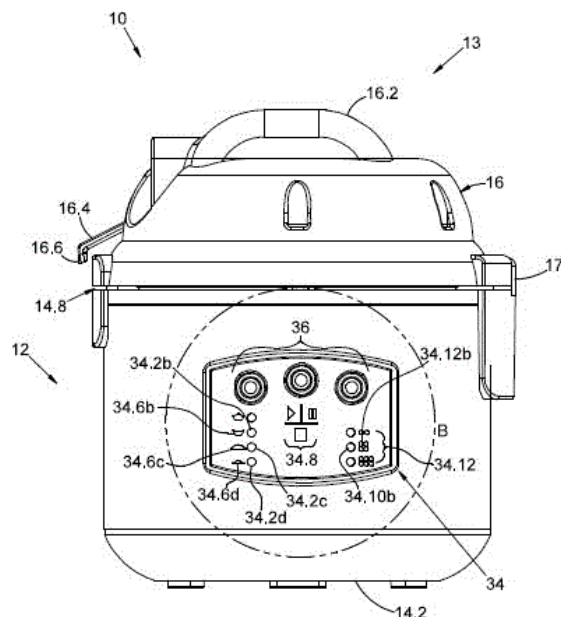
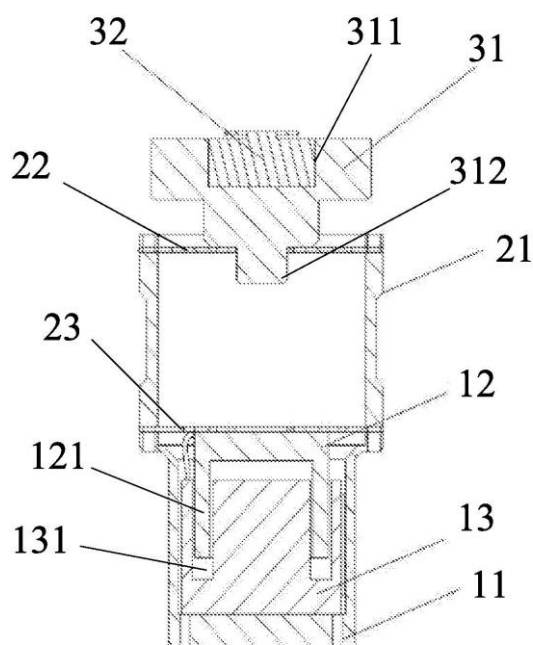
72: WANG, Qiang, SHAO, Jinhua, SUN, Jin, DUAN, Houli

33: CN 31: 201610634360.6 32: 2016-08-04

54: ULTRASONIC DEVICE AND DEVICE FOR GENERATING MECHANICAL VIBRATION

00: -

An ultrasonic device and a device for generating a mechanical vibration. The ultrasonic device comprises an ultrasonic probe and the device for generating a mechanical vibration. The device for generating a mechanical vibration comprises a vibration generator (1), a damping assembly (2), and a pressure assembly (3). The damping assembly (2) is fixed between the vibration generator (1) and the pressure assembly (3), and the ultrasonic probe is connected to the pressure assembly (3). The vibration generator (1) is used for generating a vibration when a pressure value detected by the pressure assembly (3) reaches a preset range. The ultrasonic probe of the ultrasonic device makes contact with the skin surface corresponding to an organ to be detected and applies a downward pressure to the skin surface, the device for generating a mechanical vibration generates mechanical vibration outside the organ to be detected, and accordingly organ elasticity detection can be carried out by carrying out an operation on the corresponding skin surface outside the organ to be detected; no surgery is needed, pain brought by the surgery to a human body or an animal is relieved, and the operation is quite convenient.



21: 2018/06378. 22: 2018/09/25. 43: 2021/06/28
51: A47J

71: ZHEUNG, Gordon

72: ZHEUNG, Gordon

33: ZA 31: 2017/06724 32: 2017-10-06

**54: AUTOMATIC PORRIDGE COOKER,
AUTOMATIC PORRIDGE COOKER ASSEMBLY
AND METHOD OF COOKING PORRIDGE WITH
AN AUTOMATIC PORRIDGE COOKER**

00: -

The invention relates to an automatic porridge cooker comprising a cooking vessel; a heating means for heating the cooking vessel up to at least one predefined temperature; an agitator means located/locatable in the cooking vessel for rotating inside the cooking vessel at at least one rotational speed; and a central processing unit in communication with the heating means and agitator means for causing the heating means to heat up the cooking vessel to the at least one predefined temperature and agitator means to rotate at the at least one rotational speed. The invention also extends to a cooker assembly, a porridge cooker kit, a system of a porridge cooker and a method of cooking porridge with the porridge cooker.

21: 2018/06962. 22: 18/10/2018. 43: 2021/06/14

51: A61K; C07K

71: KITE PHARMA, INC.

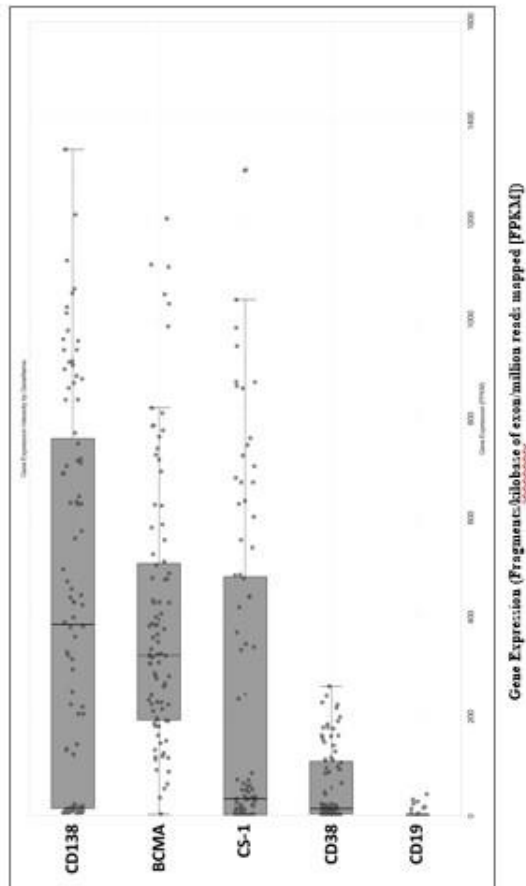
72: WILTZIUS, Jed, ALVAREZ RODRIGUEZ, Ruben, JONATHAN BELK

33: US 31: 62/317,334 32: 2016-04-01

**54: BCMA BINDING MOLECULES AND
METHODS OF USE THEREOF**

00: -

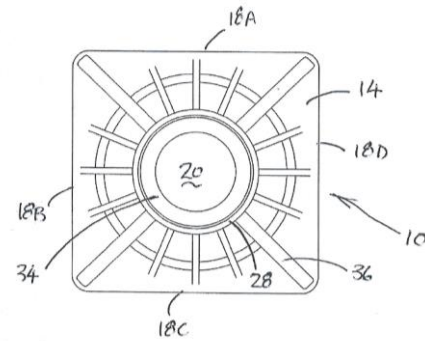
The invention provides antibodies, antigen binding fragments thereof, chimeric antigen receptors (CARs), and engineered T cell receptors, polynucleotides encoding the same, and in vitro cells comprising the same. The polynucleotides, polypeptides, and in vitro cells described herein can be used in an engineered CAR T cell therapy for the treatment of a patient suffering from a cancer. In one embodiment, the polynucleotides, polypeptides, and in vitro cells described herein can be used for the treatment of multiple myeloma.

FIG. 2A – Gene Expression in Multiple Myeloma Cells

21: 2018/07347. 22: 2018/11/02. 43: 2021/05/27
 51: E21D
 71: NCM INNOVATIONS (PTY) LTD
 72: ABREU, Rual
 33: ZA 31: 2017/07881 32: 2017-11-21
 33: ZA 31: 2018/00459 32: 2018-01-23
54: FACEPLATE MADE OF COMPOSITE MATERIAL

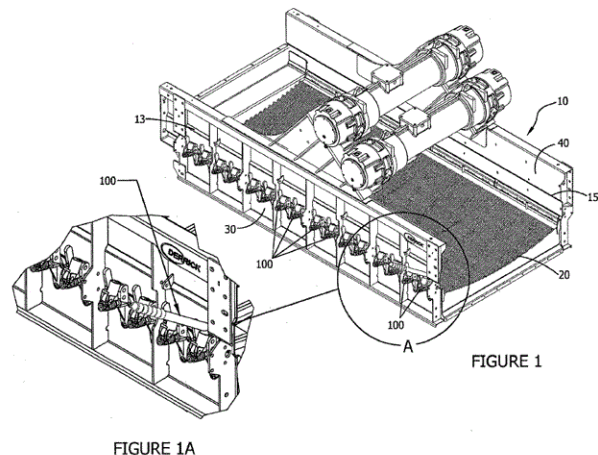
00: -

The invention provides a washer made of a composite material which has a plate-like body with a first surface and a second surface, a perimeter edge, a central aperture through the body and a yielding zone, circumscribing the aperture and a metal load distributing ring engageable with the first surface to cover at least part of the yielding zone.



21: 2018/07490. 22: 2018/11/07. 43: 2021/06/14
 51: B07B
 71: DERRICK CORPORATION
 72: NEWMAN, CHRISTIAN T
 33: US 31: 62/096,330 32: 2014-12-23
54: SYSTEMS, APPARATUSES, AND METHODS FOR SECURING SCREEN ASSEMBLIES
 00: -

The present disclosure provides for a system of securing screen assemblies. Embodiments include a system having a compression assembly with a compression pin. The compression assembly may be attached to a first wall member of a vibratory screening machine and the pin assembly may be attached to a second wall member of the vibratory screening machine opposite the first wall member such that the compression assembly is configured to assert a force against a first side portion of a screen assembly and drive a second side portion of the screen assembly against the pin of the pin assembly.



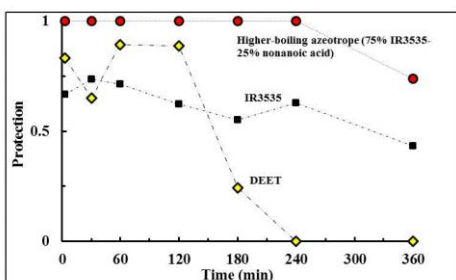
21: 2018/08045. 22: 2018/11/28. 43: 2021/06/14
 51: A01N

71: UNIVERSITY OF PRETORIA
 72: IZADI, Homa, FOCKE, Walter Wilhelm
 33: ZA 31: 2016/03289 32: 2016-05-16

54: INSECT REPELLENTS

00: -

An insect repellent composition includes at least a first compound and a second, different compound. At least the first compound is an insect repellent. The first compound and the second compound are capable of together forming a negative pseudo-azeotrope with a vapour composition at ambient pressure and temperature in which the first compound is present in a sufficiently high concentration to provide an insect repellent effect. The insect repellent composition in some embodiments can also function as an insecticidal composition.



21: 2018/08160. 22: 2018/12/03. 43: 2021/06/14
 51: A61K; C07K
 71: MedImmune, LLC
 72: KASTURIRANGAN, Srinath, GAO, Changshou, RAINEY, Godfrey, MORROW, Michelle, DOBSON, Claire Louise, DRABIC, Stacey, SCHOFIELD, Darren, CARLESSO, Gianluca, POLLIZZI, Kristen, MAZOR, Yariv, OBERST, Michael, HAMMOND, Scott A., LOBO, Brian, MANIKWAR, Prakash, SEAMAN, Jonathan, DOVEDI, Simon, HERBST, Ronald

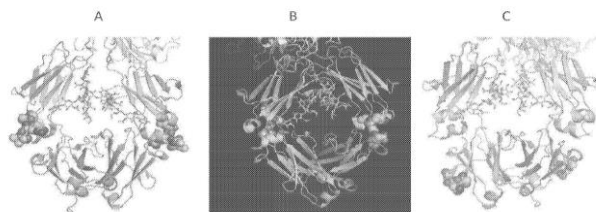
33: US 31: 62/332,788 32: 2016-05-06

54: BISPECIFIC BINDING PROTEINS AND USES THEREOF

00: -

The disclosure generally provides proteins that bind two epitopes (e.g., a first and a second epitope) and that are bivalent for binding to each of the first and second epitopes. The disclosure also provides for specific binding proteins, including antibodies, which bind to a target protein. The disclosure also provides compositions comprising such proteins, nucleic acid molecules encoding such proteins and methods of making such proteins. The disclosure provides

methods of inducing an immune response in a subject as well as methods for treating or preventing cancer in a subject by administering the proteins, nucleic acid molecules and/or compositions to the subject.



21: 2018/08162. 22: 2018/12/03. 43: 2021/06/14
 51: C07D

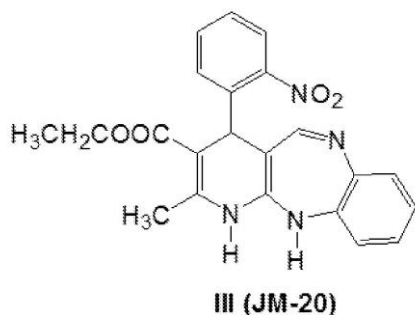
71: Universidad de La Habana, Centro de Investigación y Desarrollo de Medicamentos CIDEM
 72: NÚÑEZ FIGUEREDO, Yanier, WONG GUERRA, Maylin, FONSECA FONSECA, Luis Arturo, GARRIDO SUÁREZ, Bárbara Beatriz, RAMÍREZ SÁNCHEZ, Jeney, PARDO ANDREU, Gilberto Lázaro, VERDECIA REYES, Yamila, OCHOA RODRÍGUEZ, Estael, BÁRZAGA FERNÁNDEZ, Pedro Gilberto, GONZÁLEZ ALFONSO, Nicté, DELGADO HERNÁNDEZ, René, PADRÓN YAQUIS, Saúl Alejandro

33: CU 31: 2016-0058 32: 2016-05-04

54: BENZODIAZEPINE DERIVATIVE WITH ACTIVITY ON THE CENTRAL NERVOUS AND VASCULAR SYSTEMS

00: -

The invention relates to a compound of formula III, the derivatives thereof, and pharmaceutical compositions containing same for the treatment of diseases of the central nervous and vascular systems, particularly neurodegenerative disorders with cognitive deterioration, diseases associated with oxidative stress, diseases associated with mitochondrial dysfunction, Parkinson's disease and neuropathic pain, as well as the pathological processes associated with aging.



21: 2018/08212. 22: 2018/12/05. 43: 2021/06/14

51: A01N; D01F

71: UNIVERSITY OF PRETORIA

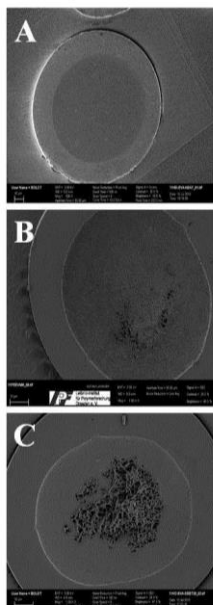
72: FOCKE, Walter Wilhelm, SIBANDA, Mthokozisi

33: ZA 31: 2016/04058 32: 2016-06-15

54: COMPOSITE POLYMER FIBRES

00: -

A composite polymer fibre or filament includes a core of a polymer. The core includes a liquid active ingredient. A sheath surrounding the core is also of a polymer and acts to reduce the rate at which the liquid active ingredient is released from the core by establishing a negative concentration gradient of the liquid active ingredient from a core/sheath interface to an outer surface of the sheath. The filament can be incorporated in a multifilament yarn.



21: 2018/08579. 22: 2018/12/19. 43: 2021/06/14

51: B01D; E03B

71: Source Global, PBC

72: FRIESEN, Cody Alden, FRIESEN, Grant Harrison, LORZEL, Heath, GOLDBERG, Jonathan Edward

33: US 31: 62/339,649 32: 2016-05-20

54: SYSTEMS AND METHODS FOR WATER EXTRACTION CONTROL

00: -

A controller may control a system for extracting liquid water from air comprising a thermal unit, a primary desiccant wheel, and a regeneration fluid path. The controller may comprise a plurality of sensors, a plurality of motors, and a microcontroller coupled to the plurality of sensors and the plurality of motors. The microcontroller may be configured to determine a water extraction efficiency based on at least one signal received from at least one of the plurality of sensors and maximize the water extraction efficiency by adjusting a speed of at least one of the plurality of motors in response to the determined water extraction efficiency. The water extraction efficiency may be a value obtained by multiplying a regeneration fluid flow rate within the regeneration fluid path by an absolute humidity of air on a side of the primary desiccant wheel opposite a side in communication with the thermal unit.

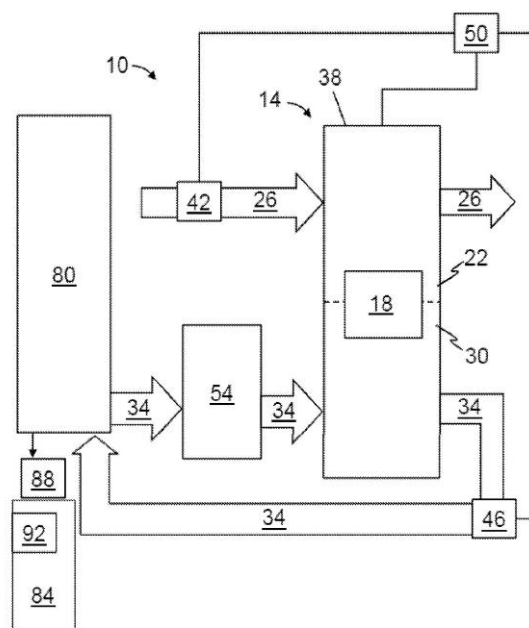


FIG. 1

21: 2018/08582. 22: 2018/12/19. 43: 2021/06/23

51: A61K; C07K

71: MedImmune Limited

72: PERKINTON, Michael, SCHOFIELD, Darren,
IRVING, Lorraine, THOM, George

33: US 31: 62/344,746 32: 2016-06-02

54: ANTIBODIES TO ALPHA-SYNUCLEIN AND USES THEREOF

00: -

The invention provides antibodies that specifically bind human β -synuclein with a high affinity and reduces β -synuclein spreading in vivo, recombinant polypeptides comprising said antibodies or antigen-binding fragment thereof and methods for generating such polypeptides, as well as compositions and methods for generating β -synuclein antibodies, and methods of using β -synuclein antibodies for the treatment of diseases of the central nervous system, in particular alpha-synucleinopathies.

21: 2018/08637. 22: 2018/12/20. 43: 2021/06/14

51: G21C

71: Joint-Stock Company Scientific Research and
Design Institute for Energy Technologies

Atomproekt, Joint Stock Company "Science and
Innovations" ("Science and Innovations", JSC)

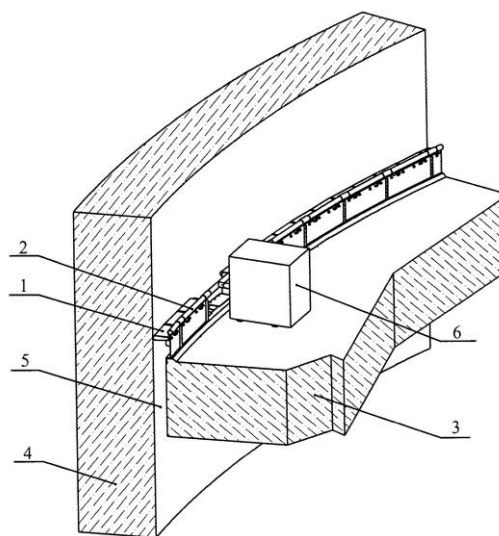
72: BEZLEPKIN, Vladimir Viktorovich,
KUKHTEVICH, Vladimir Olegovich, MITRYUKHIN,
Andrey Gennadievich, DROBYSHEVSKIY, Maksim
Anatolyevich, USTINOV, Mikhail Sergeevich,
SHURYGINA, Nadezhda Yuryevna

54: SYSTEM FOR DIVIDING A PRESSURIZED VOLUME OF A CONTAINMENT BUILDING OF A NUCLEAR POWER PLANT

00: -

A system for dividing a pressurized volume of a containment building of a nuclear power plant relates to the field of providing for safe operation of a nuclear power plant in various regimes, including emergency regimes, and is directed towards allowing monitoring of air flows in a containment building of a nuclear power plant. A system for dividing a pressurized volume of a containment building of a nuclear power plant into isolated rooms comprises a device for dividing the pressurized volume, which device is arranged in an annular gap between a floor dividing the rooms and a wall of the containment building, an air supply device and an annular collector which is connected to the latter and is connected to inflatable shutters which are capable, in a state filled with air, of isolating air environments of rooms of the containment building and, in a deflated state, of connecting air environments of rooms of the containment building. In an emergency regime, an air supply to the inflatable shutters is stopped, the latter are lowered, completely opening the annular gap and allowing convection throughout the volume of the containment building. The system for dividing a

pressurized volume can be used in containment buildings of nuclear power plants of any type.



21: 2019/00661. 22: 2019/01/31. 43: 2021/06/22

51: C07K; C12P

71: Spiber Inc.

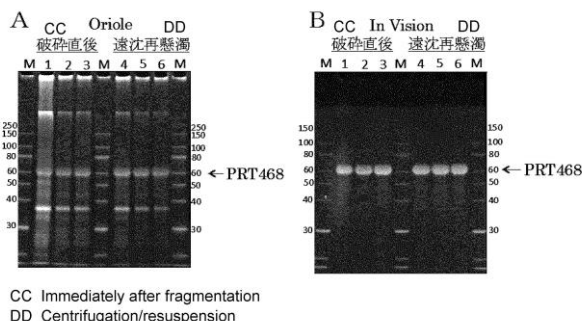
72: OSAWA, Toshiaki, SATO, Yuya, MORITA,
Keisuke

33: JP 31: 2016-157912 32: 2016-08-10

54: PRODUCTION METHOD FOR INSOLUBLE RECOMBINANT PROTEIN AGGREGATE

00: -

The purpose of the present invention is to provide a method for efficiently abstracting insoluble bodies of a target recombinant protein from recombinant cells that express the recombinant protein on the insides thereof as insoluble bodies. The present invention provides a production method in which insoluble bodies of a recombinant protein are abstracted from recombinant cells that express the recombinant protein on the insides thereof as insoluble bodies. The recombinant cells are fragmented, and then the insoluble bodies of the recombinant protein are aggregated and abstracted.



21: 2019/00737. 22: 2019/02/05. 43: 2021/06/22

51: C12N

71: Novozymes A/S

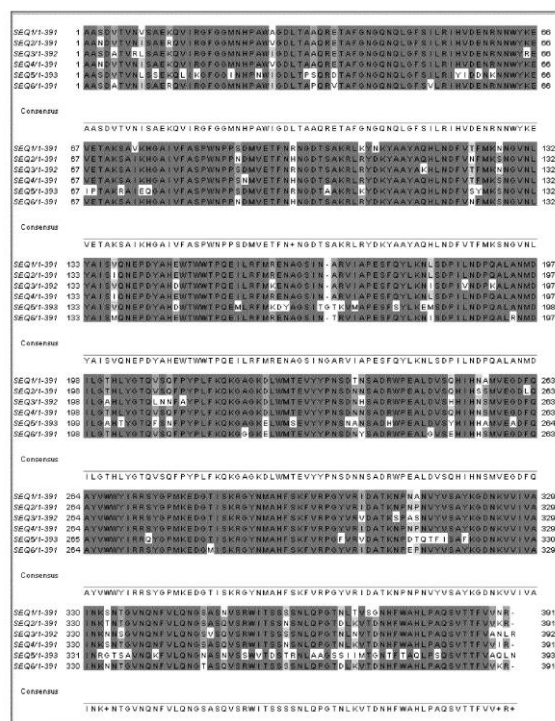
72: DANIELSEN, Steffen, HANSEN, Peter Kamp, RASMUSSEN, Frank Winther, PACHE, Roland Alexander

33: EP(DK) 31: 16178681.9 32: 2016-07-08

54: XYLANASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME

00: -

The present invention relates to xylanase variants, polynucleotides encoding the variants; nucleic acid constructs, vectors, and host cells comprising the polynucleotides; compositions comprising the xylanase variants and methods of using the variants.



51: C01B; C01G; C22B

71: VanadiumCorp Resources Inc.

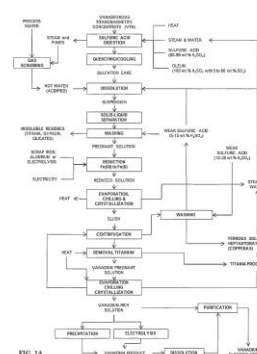
72: CARDARELLI, François

33: US 31: 62/463,411 32: 2017-02-24

54: METALLURGICAL AND CHEMICAL PROCESSES FOR RECOVERING VANADIUM AND IRON VALUES FROM VANADIFEROUS TITANOMAGNETITE AND VANADIFEROUS FEEDSTOCKS

00: -

The present disclosure broadly relates to a process for recovering vanadium, iron, titanium and silica values from vanadiferous feedstocks. More specifically, but not exclusively, the present disclosure relates to a metallurgical process in which vanadium, iron, titanium and silica values are recovered from vanadiferous feedstocks such as vanadiferous titanomagnetite, iron ores, vanadium slags and industrial wastes and by-products containing vanadium. The process broadly comprises digesting the vanadiferous feedstocks into sulfuric acid thereby producing a sulfation cake; dissolving the sulfation cake and separating insoluble solids thereby producing a pregnant solution; reducing the pregnant solution thereby producing a reduced pregnant solution; and crystallizing ferrous sulfate hydrates from the reduced pregnant solution, producing an iron depleted reduced solution. The process further comprises removing titanium compounds from the iron depleted reduced solution thereby producing a vanadium-rich pregnant solution; concentrating vanadium and recovering vanadium products and/or a vanadium electrolyte.



21: 2019/00794. 22: 2019/02/07. 43: 2021/06/14

51: A21D

71: Société des Produits Nestlé S.A.

72: SUNDERLAND, Charles-Austin, GREEN, John, DE LABAUE D'ARIFAT, Louis

21: 2019/00743. 22: 2019/02/05. 43: 2021/06/22

33: EP(CH) 31: 16178527.4 32: 2016-07-08

54: REDUCED SUGAR WAFER

00: -

The present invention relates a sugar reduced wafer composition comprising, 60 - 80 wt. % of flour, 10 - 23 wt. % of sucrose, 0.5 - 8.0 wt. %, preferably 0.5 - 5 wt. % of oil or fat and 5 - 20 wt. % of non-digestible fibers wherein the total amount of mono and disaccharides is 10 - 25 wt. %; all wt. % being in weight percentage of the composition dry mass. The invention also relates to a baked sugar reduced wafer such as a wafer cone or edible container made with this composition and a process for manufacturing the sugar reduced wafer.

21: 2019/00886. 22: 2019/02/12. 43: 2021/06/23

51: E21D

71: M PROPS (PROPRIETARY) LIMITED

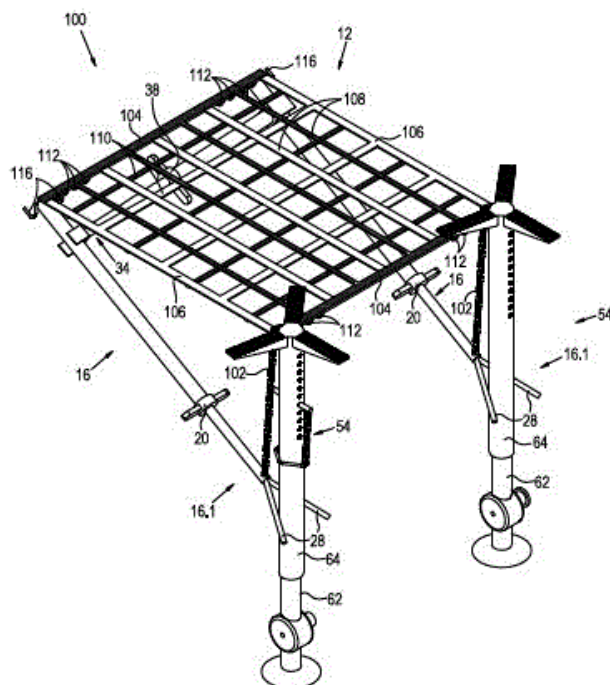
72: MAY, Colin Mark

33: ZA 31: 2018/03735 32: 2018-06-06

54: A Support Installation

00: -

The invention provides a support installation configured to provide support to an area of hanging wall, in particular, a newly exposed area of hanging wall which is exposed post a blast. The installation includes at least two transversely spaced support arrangements and a hanging wall support which extends between the support arrangements and is positioned in abutment with or closely spaced from the area of hanging wall to be supported. Lateral bracing extends between the support arrangements and is configured to resist inward displacement of the support arrangements towards one another. The support arrangements are typically supported on a pair of props which can be installed before or after a blast which exposes the area of hanging wall.



21: 2019/00890. 22: 12/02/2019. 43: 2021/06/22

51: A61K; A61P

71: ALAR PHARMACEUTICALS INC.

72: LIN, Tong-Ho, WEN, Yung-Shun, LIANG, Jui-Wei

33: US 31: 62/394,168 32: 2016-09-13

54: SUSTAINED-RELEASE BUPRENORPHINE FORMULATIONS

00: -

An injectable pharmaceutical composition includes a solution of 3-acyl-buprenorphine, or a pharmaceutically acceptable salt thereof, in a biocompatible organic solvent, wherein the injectable pharmaceutical composition exhibits a steady release profile lasting over one week when injected into a patient. The acyl group is an alkylcarbonyl group, and an alkyl portion of the alkylcarbonyl group is a straight-chain, branched-chain, having 1-20 carbon atoms. The biocompatible organic solvent is N-methyl-2-pyrrolidone, ethyl acetate, ethanol, butanol, 2-butanol, isobutanol, isopropanol, glycerin, benzyl benzoate, dimethyl sulfoxide, N, N-dimethylacetamide, propylene glycol, dimethyl glycol, benzyl alcohol, or a combination of two or more thereof.

21: 2019/00917. 22: 2019/02/13. 43: 2021/06/23

51: A63B; A63F; G09B

71: MNGQIBISA, Gray Thuso

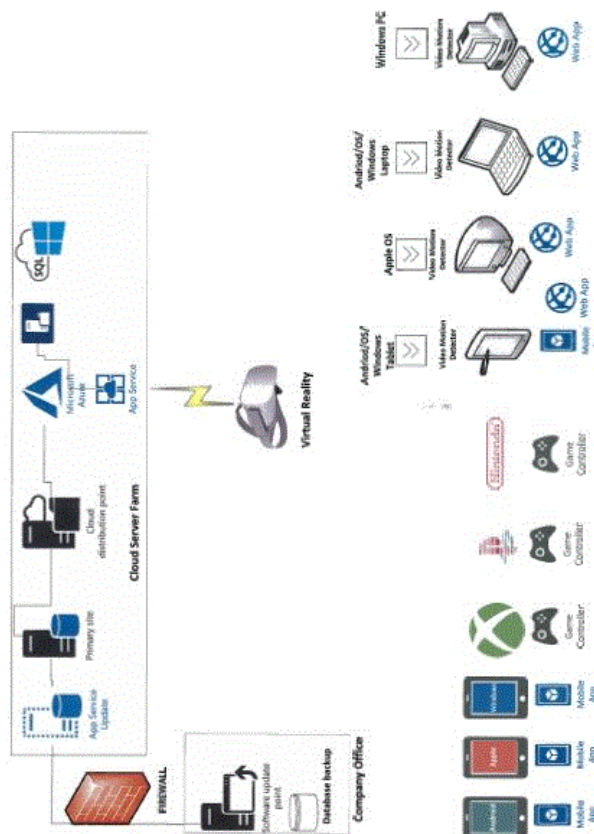
72: MNGQIBISA, Gray Thuso

33: ZA 31: 2018/01893 32: 2018-03-20

54: SPORTS OFFICIATING SIMULATOR (Rugby Refereeing Simulator)

00: -

Motivation: We want to recruit and retain more referees and umpires in sport. As officiating in sport is made much easier. The expectation is that officials are asked to make calls in real time i.e. in a fraction of a second and that is not a simple matter. With this platform, confidence of officials will be improved. Problem statement: It's a platform that gives one the ability to be taught and tested before setting foot on a rugby field, providing the opportunity for practical experience. This also allows for one to gain knowledge and familiarize themselves with game conditions. By this game situation simulation one will gain confidence long before officiating any official game or dealing with real players. Approach: Use Simulation. Results: Improving accuracy in real time decision making. Conclusion: Will help to revolutionize how we educate, coach and improve the sport to all corners of the world.



21: 2019/00922. 22: 13/02/2019. 43: 2021/06/14

51: C07D

71: BASF SE, DOW GLOBAL TECHNOLOGIES LLC

72: TELES, Joaquim, Henrique, KRAMP, Marvin, MUELLER, Christian, WOERZ, Nicolai, Tonio, METZEN, Bernd, KELLER, Tobias, RIEDEL, Dominic, SCHELLING, Heiner, WEBER, Markus, URBANCZYK, Daniel, PARVULESCU, Andrei-Nicolae, WEGERLE, Ulrike, MUELLER, Ulrich, WEIDENBACH, Meinolf, WITZL, Werner, J.

33: EP 31: 16180305.1 32: 2016-07-20

54: A PROCESS FOR PURIFYING PROPYLENE OXIDE

00: -

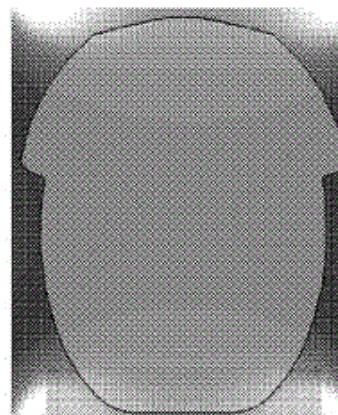
The present invention is related to a process for purifying propylene oxide, comprising (i) providing a stream SO comprising propylene oxide, acetonitrile, water, and an organic compound comprising a carbonyl group -C(=O)-, wherein said organic compound comprising a carbonyl group -C(=O)- comprises one or more of acetone and propionaldehyde; (ii) separating propylene oxide from the stream SO by distillation, comprising (11.1) subjecting the stream SO to distillation conditions in

a first distillation unit, obtaining a gaseous top stream S1 c which is enriched in propylene oxide compared to the stream S0, a liquid bottoms stream S1a which is enriched in acetonitrile and water compared to the stream S0, and a side stream S1b comprising propylene oxide which is enriched in the carbonyl compound compared to the stream S0; (11.2) reacting the carbonyl compound comprised in the side stream S1b with an organic compound comprising an amino group -NH₂ obtaining a reaction product of the organic compound comprising a carbonyl group and the organic compound comprising an amino group; (11.3) separating propylene oxide from the reaction product of the organic compound comprising a carbonyl group and the organic compound comprising an amino group in a second distillation unit, obtaining a gaseous top stream S3a which is enriched in propylene oxide and a liquid bottoms stream S3b which is enriched in the reaction product of the organic compound comprising a carbonyl group and the organic compound comprising an amino group; (11.4) introducing the top stream S3a which is enriched in propylene oxide propylene oxide into the first distillation unit.

21: 2019/00963. 22: 14/02/2019. 43: 2021/06/22
51: A61B; A61N; G21K
71: NEOTHERMA ONCOLOGY, INC.
72: ANDERSON, JR. CHARLES ERIC, WANDELL, MICHAEL GEORGE, JONES, RANDALL WAYNE
33: US 31: 62/363,795 32: 2016-07-18
54: SYSTEMS AND METHODS FOR TARGETED DEEP HYPERTHERMIA BY TIME-SHARED RF INDUCTIVE APPLICATORS

00: -

The present disclosure provides, inter alia, a system and methods for targeted hyperthermia effective to differentially heat target organs. In certain embodiments, the system and/or method utilizes one or more pairs of inductive applicators coupled to the one or more RF generators and configured to deposit radio frequency radiation on a region of interest based on a set of configurable parameters.



21: 2019/00976. 22: 2019/02/15. 43: 2021/06/22
51: A61K; C07F
71: STELLENBOSCH UNIVERSITY, UNIVERSITY OF CAPE TOWN
72: MAPOLIE, SELWYN FRANK, BLANCKENBERG, ANGELIQUE, VAN NIEKERK, ANNICK, PRINCE, SHARON
33: ZA 31: 2018/01074 32: 2018-02-16
54: BINUCLEAR PALLADACYCLES AND THEIR USE IN THE TREATMENT OF CANCER

00: -

This invention relates to a series of binuclear palladacycle compounds, and methods for the production of these compounds, that are suitable for use in the treatment of cancer. In particular embodiments, R¹ is phenyl substituted with two occurrences of isopropyl, R² is Cl, and R³ is independently one or more substituents selected from -O(CH₂)₂O(CH₂)₂OH, -O(CH₂)₂O(CH₂)₂O(CH₂)₂OH, -O(CH₂)₂OH, and -O(CH₂)₂O(CH₂)₂OCH₃.

21: 2019/01099. 22: 20/02/2019. 43: 2021/06/22
51: C07C; C07D; A61K; A61P
71: VECTUS BIOSYSTEMS LIMITED
72: DUGGAN, KAREN ANNETTE
33: AU 31: 2016902978 32: 2016-07-28
54: COMPOSITIONS FOR THE TREATMENT OF PULMONARY FIBROSIS

00: -

The present invention relates to compounds and their use in the prophylactic and/or therapeutic treatment of pulmonary fibrosis and/or related conditions.

21: 2019/01215. 22: 26/02/2019. 43: 2021/07/06

51: B65D

71: MAUSER-WERKE GMBH

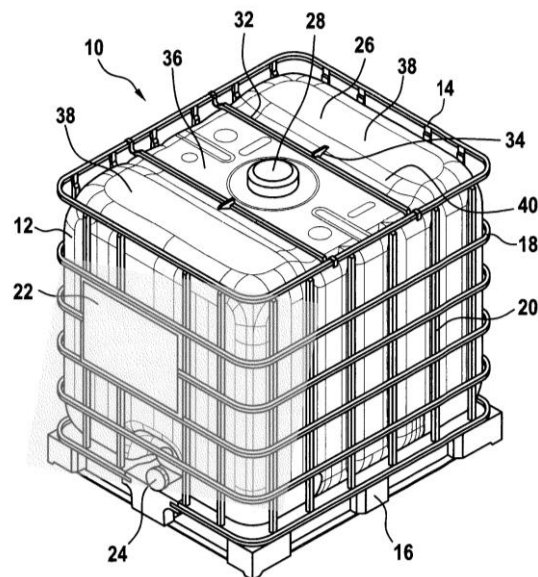
72: MAUSER-WERKE GMBH

33: DE 31: 20 2016 005 519.5 32: 2016-09-12

54: PALLET CONTAINER

00: -

The invention relates to a pallet container (10) for the storage and the transport of liquid or free-flowing filling materials, having a thin-walled rigid inner container (12) made of thermoplastic, having a tubular grid frame (14) enclosing the plastic inner container (12) tightly as a supporting jacket and made of horizontal and vertical tubular rods (18, 20) welded to one another, and having a rectangular base palette (16), on which the plastic inner container (12) rests and to which the tubular grid frame (14) is firmly connected. Transversely over the top (26), in each case laterally beside the upper filling nozzle (30) of the cubical plastic inner container (12), there extend two parallel tubular rod-shaped crossmembers (32), to which the top (26) of the plastic inner container (12) is fixed by means of two holders provided there. The holders are formed from the plastic material of the plastic inner container (12) in the course of the upper pinch-off seam during the blow molding operation. To improve the stability of the pallet container (10) overall and to improve the fixing of the inserted plastic inner container (12), the top (26) of the plastic inner container (12) is now fixed with two solid stable crossmember supporting pins (34) which are open at the top and each engage over the crossmembers (32), instead of the previously usual closed thin plastic eyes.



21: 2019/01240. 22: 2019/02/27. 43: 2021/06/14

51: B60K; B60L; H02K

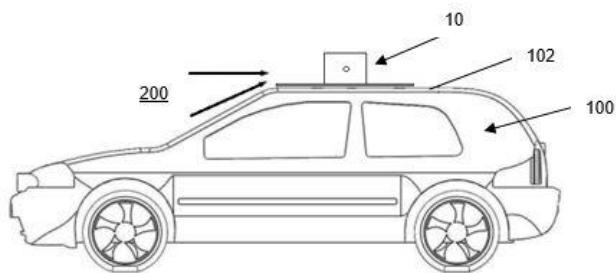
71: SATYEAND RAMNAWAZ

72: SATYEAND RAMNAWAZ

54: A POWER GENERATING DEVICE

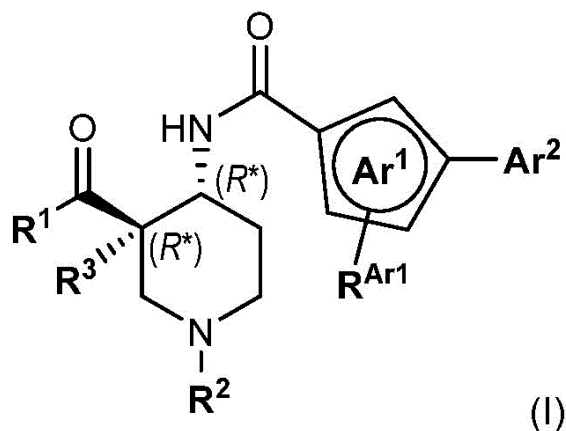
00: -

The invention relates to a power generating device attachable to a vehicle. The device comprises a rotor including a plurality of wind blades connected at their bases to a rotatable horizontal axis, the blades extending along at least one zone of the length of the axis, and the orientation of the axis being substantially perpendicular to the direction in which air flows into the front of the device, and wherein each blade is configured with bent or curved outer end regions, the outer end regions also being weighted, such that the blades permit the rotor to generate and maintain rotational momentum while in motion. The device further includes at least one generator connected to the axis of the rotor such that upon rotation thereof by the force of the air on the blades, power is generated by the generator.



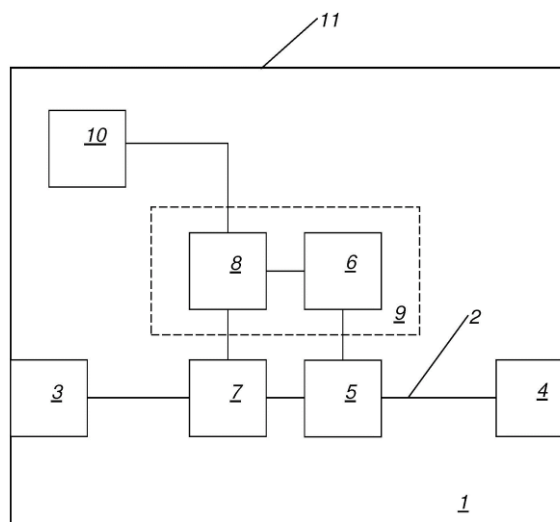
21: 2019/01256. 22: 2019/02/27. 43: 2021/06/14
 51: A61K; A61P; C07D
 71: Idorsia Pharmaceuticals Ltd
 72: AISSAOUI, Hamed, GUERRY, Philippe, LEHEMBRE, Francois, POTHIER, Julien, POUZOL, Laetitia, RICHARD-BILDSTEIN, Sylvia, YUAN, Shuguang
 33: PCT/EP(CH) 31: 2016/068052 32: 2016-07-28
54: PIPERIDINE CXCR7 RECEPTOR MODULATORS
 00: -

The present invention relates to piperidine derivatives of formula (I) wherein Ar^1 , Ar^2 , R^{Ar1} , R^1 , R^2 , and R^3 are as described in the description, their preparation, to pharmaceutically acceptable salts thereof, and to their use as pharmaceuticals, to pharmaceutical compositions containing one or more compounds of formula (I), and especially to their use as CXCR7 receptor modulators.



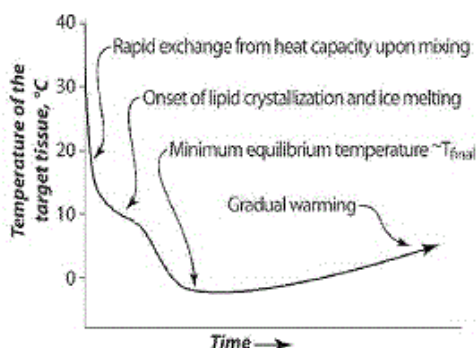
21: 2019/01259. 22: 2019/02/27. 43: 2021/06/22
 51: H01H; H01L; H02H; H02P
 71: Eaton Intelligent Power Limited
 72: HAUER, Wolfgang, ASKAN, Kenan
 33: DE 31: 10 2016 116 400.3 32: 2016-09-01
54: CIRCUIT BREAKER
 00: -

The invention relates to a circuit breaker (1) having at least one switching path (2) from a first connection terminal (3) of the circuit breaker (1) to a second connection terminal (4) of the circuit breaker (1), wherein at least one semiconductor switch (5) is arranged in the switching path (2), wherein the semiconductor switch (5) for predefinably interrupting the switching path (2) is actuated by a release (6) of the circuit breaker (1), wherein the circuit breaker (1) has a current measuring arrangement (7) for ascertaining a current profile through the semiconductor switch (5), wherein the current measuring arrangement (7) is connected to a characteristic variable unit (8) of the circuit breaker (1), which characteristic variable unit is connected to the release (6). According to the invention, the characteristic variable unit (8) is designed in such a way that a characteristic variable, which is correlated with the junction temperature of the semiconductor switch (5), is ascertained from the current profile through the semiconductor switch (5).



21: 2019/01279. 22: 28/02/2019. 43: 2021/06/03
 51: A61K
 71: THE GENERAL HOSPITAL CORPORATION
 72: GARIBYAN, LILIT, ANDERSON, RICHARD ROX, FARINELLI, WILLIAM A, JAVORSKY, EMILIA
 33: US 31: 62/121,329 32: 2015-02-26
 33: US 31: 62/121,472 32: 2015-02-26
 33: US 31: 62/042,979 32: 2014-08-28
54: COMPOSITIONS AND METHODS FOR TREATMENT OF NEUROLOGICAL DISORDERS
 00: -

Described herein are compositions comprising, and methods for using, biocompatible cold slurries and methods of administering the same to provide reversible inhibition of peripheral nerves in a subject in need thereof.



21: 2019/01339. 22: 04/03/2019. 43: 2021/06/14

51: A61B

71: ADAPTIX LIMITED

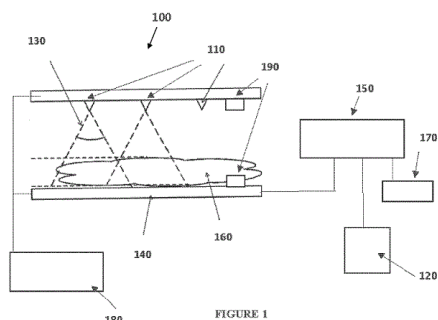
72: HAUSER, Raphael, KLODT, Maria, TRAVISH, Gil, BETTERIDGE, Paul

33: US 31: 15/231,039 32: 2016-08-08

54: METHOD AND SYSTEM FOR RECONSTRUCTING 3-DIMENSIONAL IMAGES FROM SPATIALLY AND TEMPORALLY OVERLAPPING X-RAYS

00: -

An x-ray imaging system and method for reconstructing three-dimensional images of a region of interest from spatially and temporally overlapping x-rays using novel reconstruction techniques.



21: 2019/01421. 22: 07/03/2019. 43: 2021/06/22

51: H01L

71: TERMOIND S.A.

72: TIRELLA, Vincenzo, MAGAGNIN, Luca, IEFFA, Simona, ACCOGLI, Alessandra, PANZERI,

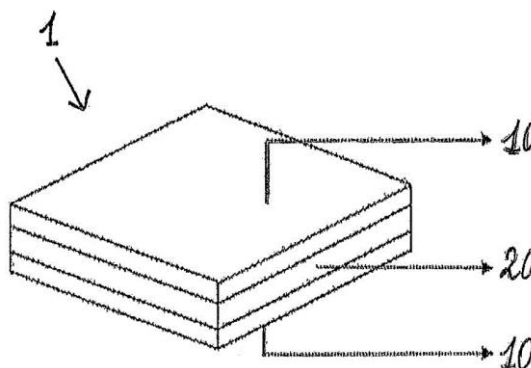
Gabriele, LIBERALE, Francesco, SUCCA, Luca, BRUNETTI, Simone

33: EP 31: PCT/EP2016/069030 32: 2016-08-10

54: ACTIVE MATERIAL AND ELECTRIC POWER GENERATOR CONTAINING IT

00: -

The invention relates to an active material comprising at least one oxygen containing compound selected from the group consisting of MgO, ZnO, ZrOCl₂, ZrO₂, SiO₂, Bi₂O₃, Al₂O₃ and TiO₂, at least one thickener additive selected from the group consisting of agar agar, xanthan gum, methylcellulose, and arabic gum, and at least one plasticizer additive, wherein the particle size of the at least one oxygen-based compound has an average diameter in the range from 10 nm to 40 μm. The invention concerns also an electric power generator (EPG) comprising at least a first electrode (11) and a second electrode (12), wherein the electric power generator comprises the active material between said electrodes (11,12).



21: 2019/01447. 22: 2019/03/08. 43: 2021/06/23

51: E21B

71: TJ Tooling CC

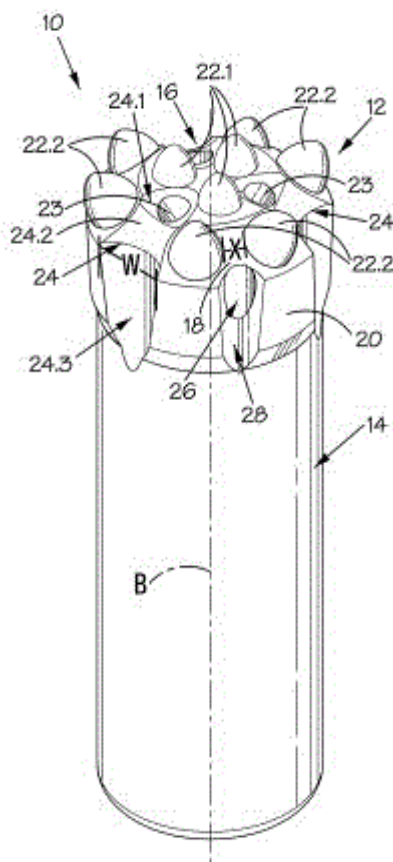
72: LAWRENSON, Thomas

54: A Drill Bit

00: -

A drill bit 10 which includes a head 12 and a shaft 14 connected to the head. The shaft 14 defines a central bore 15 along a longitudinal bit axis B. The head defines a cutting face 16 which includes cutting inserts, a planar central portion 17 and a bevelled peripheral portion 18 and three central fluid passageway 23 which leads from the central bore 15 and emerge in the central portion. The cutting inserts include three pairs of peripheral cutting inserts provided in the peripheral portion 18. Three flushing

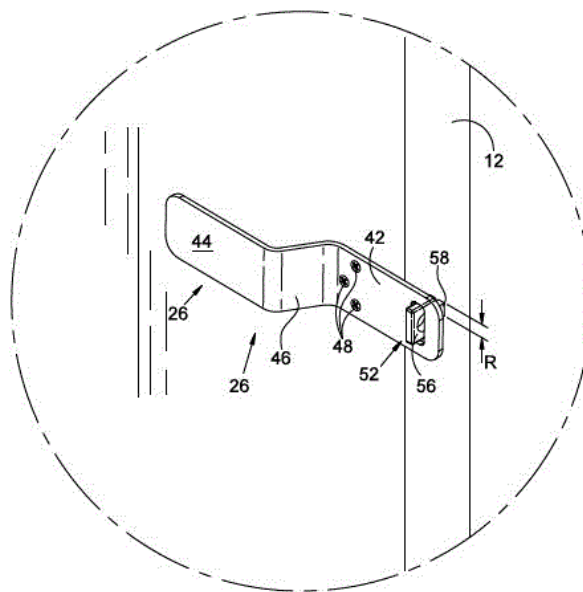
grooves 24 are provided, each of which communicates with a central fluid passageway 23. Each flushing groove 24 has a breadth W which is greater than a linear distance X between one pair of peripheral cutting inserts adjacent to the flushing groove such that fluid transportation of a flushing medium away from the cutting face 16 is enhanced.



21: 2019/01521. 22: 2019/03/12. 43: 2021/06/23
51: E05B
71: AFRILLOO (PROPRIETARY) LIMITED
72: FOURIE (851119 5215 08 0), Lukas Pieter
33: ZA 31: 2018/01665 32: 2018-03-12
54: A door locking arrangement
00: -

The invention is in respect of a door locking arrangement (22) which includes an interior lock (24) and an exterior lock (26). The interior lock (24) is displaceable from the inside of a structure to which the door is mounted between a locked condition, in which it releasably locks the door in a closed position and a released condition in which it permits displacement of the door to an open position. The exterior lock (26) is operable from outside the

structure to lock the door in a closed position, the lock arrangement being configured such that when the interior lock is in its locked condition, the exterior lock cannot be locked.



21: 2019/01695. 22: 19/03/2019. 43: 2021/08/12
51: A61K; C07D; A61P
71: NSC THERAPEUTICS GMBH
72: FISHER, Abraham, BAR-NER, Nira, WINDISCH, Manfred
33: EP 31: 16192494.9 32: 2016-10-05
54: CRYSTALLINE POLYMORPHS OF A MUSCARINIC ACETYLCHOLINE RECEPTOR AGONIST
00: -

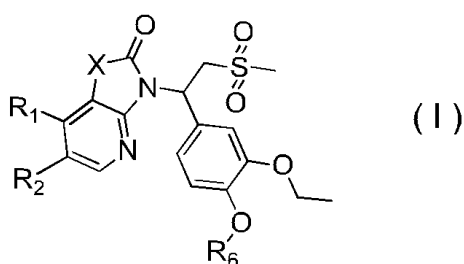
Provided are novel crystalline forms of a spiro-compound which acts as a muscarinic acetylcholine receptor agonist. In particular, isolated crystalline polymorphs of (S)-2-ethyl-8-methyl-1-thia-4,8-diazaspiro[4.5]decane-3-one are described which have favorable properties in pharmaceutical manufacture. Also provided are methods to prepare said crystalline polymorphs, and to convert them into each other as well as methods for preparing medicaments containing the same which are suitable for use in the treatment of diseases and disorders that respond to modulation of the muscarinic acetylcholine receptor.

21: 2019/01773. 22: 22/03/2019. 43: 2021/06/22
 51: A61K; C07D; A61P
 71: MEDSHINE DISCOVERY INC.
 72: LUO, Yunfu, YANG, Chundao, LEI, Maoyi, LIU, Ling, HU, Guoping, LI, Jian, CHEN, Shuhui.
 33: CN 31: 201610700714.2 32: 2016-08-22

54: PDE4 INHIBITOR

00: -

Provided are a PDE4 inhibitor and a use thereof in the preparation of a medicament for treating PDE4 related diseases. Specifically disclosed are the compound as shown in formula (I) and a pharmaceutically acceptable salt thereof.

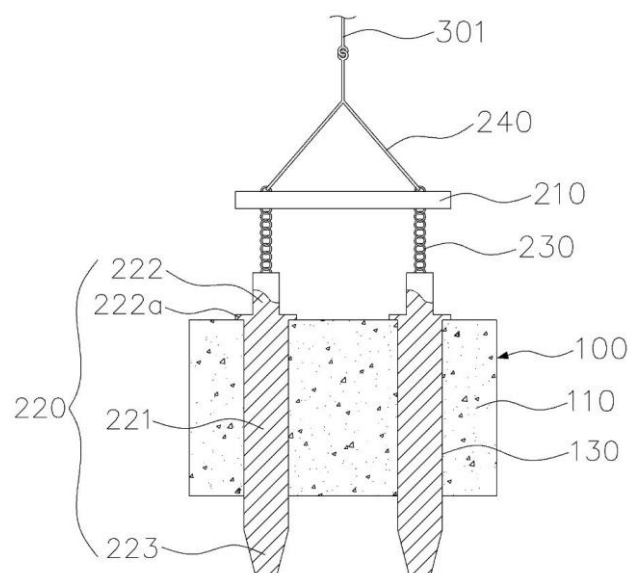


21: 2019/01793. 22: 22/03/2019. 43: 2021/06/14
 51: E02B; E02D
 71: Sang Gi KIM
 72: KIM, Sang Gi
 33: KR 31: 10-2016-0107518 32: 2016-08-24

54: CONCRETE BLOCK CONSTRUCTION METHOD AND GUIDE MEMBER FOR INSTALLING CONCRETE BLOCK

00: -

The present invention enables a concrete block to be very easily seated, when installing the concrete block, in a precise position that fits with the positions of a concrete block on a lower part thereof and a concrete block positioned on one side thereof, thereby enabling the precise construction of the concrete block and greatly improving the speed of the construction.



21: 2019/02093. 22: 03/04/2019. 43: 2021/06/22
 51: A61K; C07K
 71: THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY
 72: MENDOZA, JUAN LUIS, GARCIA, KENAN CHRISTOPHER

33: US 31: 62/402,204 32: 2016-09-30

54: VARIANT TYPE III INTERFERONS AND SYNTHETIKINES

00: -

Compositions and methods are provided relating to Type III interferons.

21: 2019/02539. 22: 2019/04/23. 43: 2021/07/29
 51: E21B; E21D
 71: MASTER SINKERS (PTY) LTD
 72: JORDAAN, Barend Jacobus, GOODWIN, Nicolaas Bodenstein, PRETORIUS, Daniel Coenraad, GERMISHUYS, Louis, PRETORIUS, Gerhard

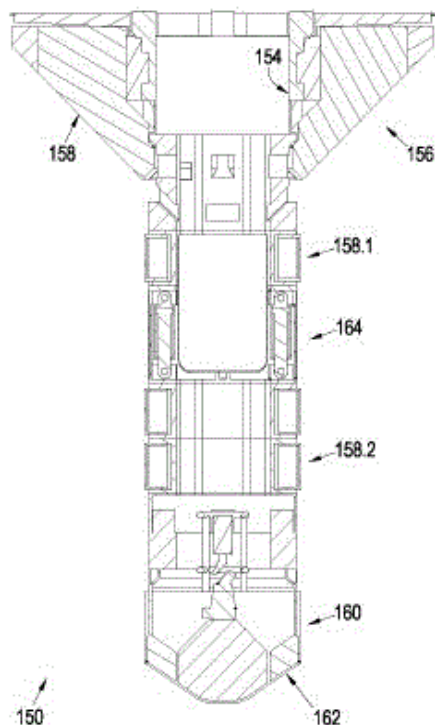
33: ZA 31: 2016/06512 32: 2016-09-21

54: SHAFT ENLARGEMENT ARRANGEMENT FOR A BORING SYSTEM

00: -

A shaft enlargement arrangement for a boring system is provided, the shaft enlargement arrangement comprising a hollow column proximate a lower end of the boring system. A reamer section comprising a downwardly tapering first cutter head arrangement is rotatably fitted to the hollow column, with first drive means being provided to rotate the first cutter head arrangement relative to the hollow column so as to bore downwardly a hole having a diameter corresponding substantially to the diameter

of the first cutter head arrangement. A boring head arrangement is fitted to an operatively lower end, the boring head arrangement terminating in a downwardly tapering second cutter head arrangement to bore a leading or pilot hole, having a diameter that is less than the diameter of the first cutter head arrangement, as the boring system proceeds to bore downwardly. A thrust section is provided to allow the boring head arrangement to advance relative to the reamer section, with a gripper arrangement being used to secure the shaft enlargement arrangement within the bored hole and to control the advancing of the boring head arrangement relative to the reamer section.

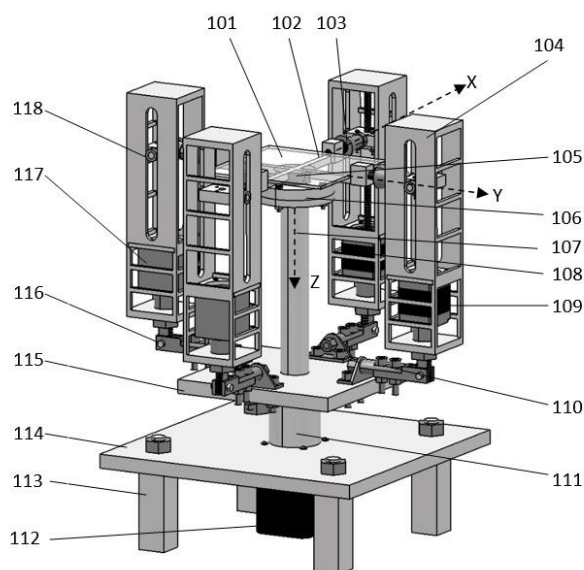


21: 2019/02540. 22: 23/04/2019. 43: 2021/07/06
51: G01S
71: Shandong University of Technology
72: WANG, Jianjun, FAN, Yuanyuan, MIAO, Song, QIAO, Jianwei, XU, Wenshuo, WANG, Zhiyong, BAI, Chongyue
33: CN 31: CN 201811315591.6 32: 2018-11-07
54: METHOD AND APPARATUS FOR ATTITUDE STABILIZATION OF LASER SCANNING FOR HELICOPTER-BORNE LIDAR

00: -

A method and apparatus for attitude stabilization of laser scanning for helicopter-borne LiDAR is

presented. The rotation of the laser reflector adopts a push-and-rotation structure, which can effectively increase the size of the laser reflector and reduce the volume and mass of the apparatus. Laser reflector is mounted on a magnetic universal ball bearing and carries out laser scanning with the ball center as the rotating center. Laser pulses are reflected on the rotating center of the laser mirrors. When the attitude angles of the airborne platform change, two screw steppermotors are used to control the laser reflector reversely rotate halves of the magnitudes of the roll and the pitch angles around the X-axis and Y-axis, respectively, to compensate the impacts of the roll and pitch on laser scanning. The z-axis stepper motor is used to drive the laser reflector reversely rotate the same amplitude as the yaw around the Z-axis to compensate the impact of yaw changing on laser scanning, so that the spatial orientation of the laser scanning is not affected by the platform attitude changes. A laser gyroscope is installed on airborne platform, and a MEMS gyroscope is installed on the laser reflector. By comparing the difference of the measurement attitude angles of the two gyroscopes, the normal line direction of laser reflector can be controlled to point to any desired spatial orientation to realize real-time tracking and scanning dynamic moving targets.



21: 2019/02744. 22: 02/05/2019. 43: 2021/07/06
51: A61K; A61P
71: NOVARTIS AG

72: FAIRHURST, Robin Alec, GRAUS PORTA, Diana, MAHL, Andreas, Joerg, MANENTI, Luigi, WEISS, Andreas, WOLF, Armin, WUERSCH, Kuno, KINYAMUAKUNDA, Jacqueline

33: US 31: 62/416,222 32: 2016-11-02

54: COMBINATIONS OF FGFR4 INHIBITORS AND BILE ACID SEQUESTRANTS

00: -

The present invention relates to a pharmaceutical combination comprising an FGFR4 inhibitor and a bile acid sequestrant, to the use of the pharmaceutical combination in the treatment of cancer, to the use of a bile acid sequestrant to reduce or mitigate side-effects associated with FGFR4 inhibition therapy.

21: 2019/02821. 22: 06/05/2019. 43: 2021/06/14
51: C04B; C08F

71: CONSTRUCTION RESEARCH & TECHNOLOGY GMBH

72: KRAUS, Alexander, PULKIN, Maxim, MITKINA, Tatiana

33: EP 31: 16193509.3 32: 2016-10-12

54: COPOLYMERS SUITABLE FOR PLASTIZING INORGANIC BINDER SYSTEMS

00: -

The present invention relates to copolymers that comprise salicylic acid derivative structural units and structural units having free polyether side chains. The copolymers are suitable to plasticize inorganic binder systems, construction chemical compositions comprising said copolymers and the use of said copolymers as a plasticizer for inorganic binder systems. Binder systems with a reduced amount of Portland cement comprising at least one copolymer of the invention provide a better liquefaction and processability as compared to said binder systems without a copolymer of the invention.

21: 2019/02833. 22: 2019/05/06. 43: 2021/06/22
51: G06K

71: Alibaba Group Holding Limited

72: MA, Chenguang

33: CN 31: 201710421333.5 32: 2017-06-07

54: FACE LIVENESS DETECTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE

00: -

A first deep learning model is trained based on general facial images. A second deep learning model is trained based on extracted facial images cropped from the general facial images. Face

liveness detection is performed based on the trained first deep learning model to obtain a first prediction score and the trained second deep learning model to obtain a second prediction score. A prediction score result is generated based on the first prediction score and the second prediction score, and the prediction score result is compared with a threshold to determine a face liveness detection result for the extracted facial images.

21: 2019/02980. 22: 13/05/2019. 43: 2021/07/16

51: A41D; A42B; A61F; A62B

71: BEMICRON

72: VANNESTE, Vincent, DE SMET, Siegfried

33: EP 31: 16197317.7 32: 2016-11-04

33: EP 31: 17166558.1 32: 2017-04-13

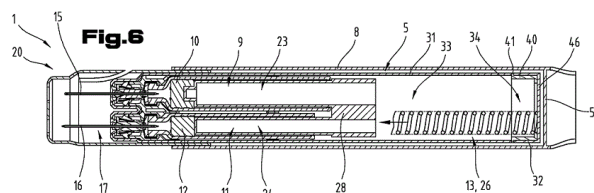
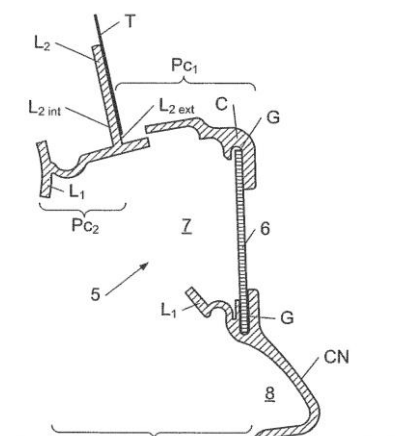
33: BE 31: 2016/5820 32: 2016-11-04

33: BE 31: 2017/5262 32: 2017-04-13

54: HEAD PROTECTION HOOD WITH INTEGRATED FRAME

00: -

The present invention concerns a head protection hood (1) having: - an outer surface (2) intended to be in contact with a surrounding environment, - an inner surface (3) intended to be in contact with the head of a user, - a head passage section (4), - a face opening (5) delimited by an edge at the eyes of the user, and - a breathing area (8), said hood comprising a frame (C) that is connected along the edge of said face opening (5), that receives a visor (6) and that has a first lip (L1) resting against the head of the user at an area situated between the root and the tip of the nose, at the front region, at the temples and at the infra-orbital regions of the face of the user, thus forming a visual compartment (7) separated from said breathing area (8), said hood being characterised in that said frame (C) further comprises a second peripheral lip (L2) situated between said first lip (L1) and said visor (6), said second peripheral lip (L2) extending towards said surrounding environment from said frame (C).



21: 2019/03190. 22: 21/05/2019. 43: 2021/06/14
51: A61M

71: PHARMA CONSULT GES.M.B.H.

72: CSENAR, Markus, SCHWIRTZ, Andreas

33: US 31: 62/413,557 32: 2016-10-27

33: AT 31: A50987/2016 32: 2016-10-27

**54: INJECTION DEVICE, IN PARTICULAR
AUTOINJECTOR, FOR THE SIMULTANEOUS
ADMINISTRATION OF SEVERAL MEDICATIONS**

00: -

The invention relates to an injection device (1) for the simultaneous administration of several medications. The injection device (1) comprises a carrying housing (5), an activation sleeve (8) surrounding the carrying housing (5), at least two carpules (9, 11), a first drive module (13) for the administration of the medications, a securing device (14), a needle arrangement (17), a needle protection element (20), and a second triggerable drive module (21) for the needle arrangement (17). The carpules (9, 11) are arranged next to another. The first drive module (13) comprises a drive element (22) with a number of piston rods (23, 24) equal to the number of carpules (9, 11), which form a composite structural unit. At least one of the piston rods (23, 24) is configured in the form of a hollow cylinder and is formed as closed on the piston side, wherein arranged inside this is a first drive means (26) of the first drive module (13).

21: 2019/03222. 22: 22/05/2019. 43: 2021/06/14
51: A61K

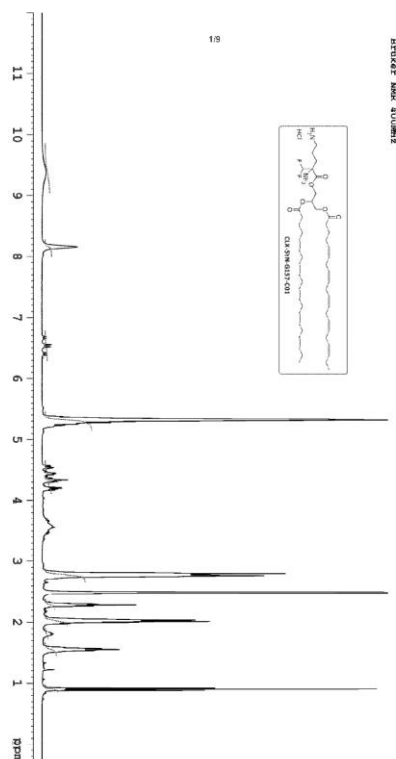
71: CELLIX BIO PRIVATE LIMITED

72: KANDULA, Mahesh

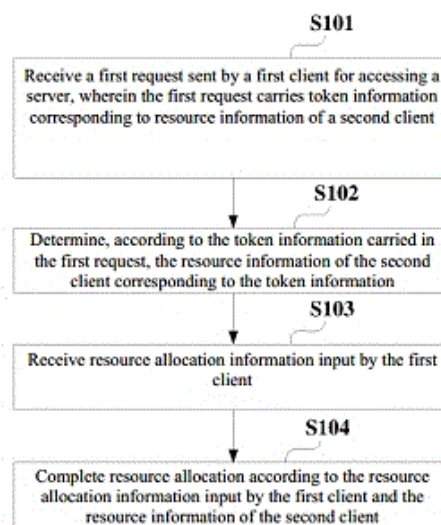
33: IN 31: 201641038684 32: 2016-11-11

**54: COMPOSITIONS AND METHODS FOR THE
TREATMENT OF GASTROINTESTINAL POLYPS**
00: -

The disclosures herein provide compounds of formula I, formula II, formula III, formula IV, formula V and formula VI or its pharmaceutical acceptable salts, as well as polymorphs, enantiomers, stereoisomers, solvates, and hydrates thereof. These salts may be formulated as pharmaceutical compositions. The pharmaceutical may be formulated for oral, buccal, rectal, topical, transdermal, transmucosal, lozenge, spray, intravenous, oral solutions, buccal mucosal layer tablet, parenteral administration, syrup, or injection. Such compositions may be used to treatment of gastrointestinal polyps or its associated complications



method. The invention protects private information of both parties of resource allocation and ensures information security of resource allocation. The resource allocation solution may be applied in the field of electronic payment.



21: 2019/03304. 22: 24/05/2019. 43: 2021/06/01
51: G06Q
71: ADVANCED NEW TECHNOLOGIES CO., LTD.
72: YUAN, LEIMING
33: CN 31: 201611140807.0 32: 2016-12-12
**54: RESOURCE ALLOCATION METHOD AND
DEVICE, AND ELECTRONIC PAYMENT METHOD**
00: -

A resource allocation method is provided, applicable to servers. The method comprises: receiving a first request sent by a first client for accessing a server, wherein the first request carries token information, and there is a correspondence between the token information and resource information of a second client (S101); determining, according to the token information carried in the first request, the resource information of the second client corresponding to the token information (S102); receiving resource allocation information input by the first client (S103); and completing resource allocation according to the resource allocation information input by the first client and the resource information of the second client (S104). The present invention further discloses a corresponding resource allocation device and a resource allocation method applicable to the first client and the second client. The invention further discloses a corresponding electronic payment

21: 2019/03501. 22: 2019/05/31. 43: 2021/06/22
51: G06Q
71: Alibaba Group Holding Limited
72: WANG, Jun
33: CN 31: 201610954029.2 32: 2016-11-03
**54: IMPROVING THE SUCCESS RATE OF AN
ONLINE TRANSACTION**
00: -

A payment request is transmitted by a computing device to a merchant server. A message is received by the computing device and from a payment server different from the merchant server. The message includes a payment client application associated with the payment sever and the payment request. A notification, associated with the message, is displayed by the computing device. The payment client application is launched, by the computing device, based on a user selection in response to the notification.

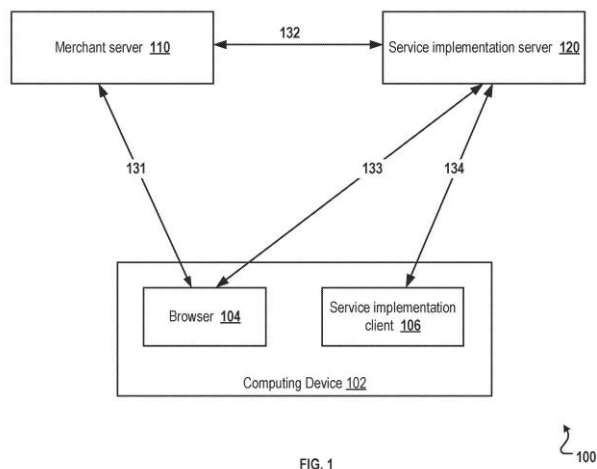
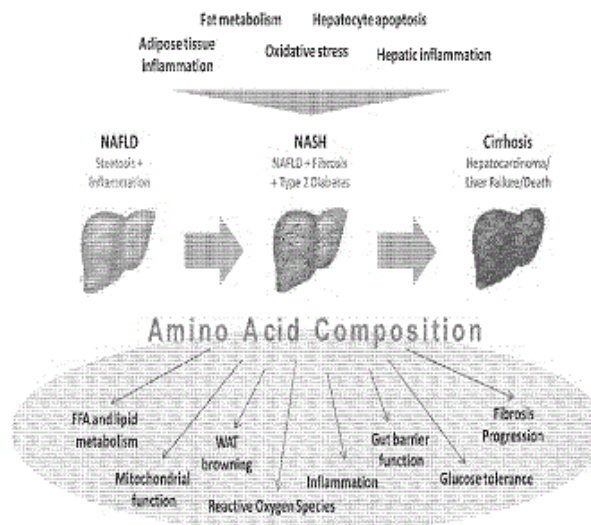


FIG. 1



21: 2019/03580. 22: 04/06/2019. 43: 2021/06/09

51: A61K; A23L; A61P

71: AXCELLA HEALTH INC.

72: HAMILL, MICHAEL, AFEYAN, RAFFI, LEE, CHUNG-WEI, LUITHARDT, HARRY, BERRY, DAVID

33: US 31: 62/436,073 32: 2016-12-19

33: US 31: 62/491,773 32: 2017-04-28

33: US 31: 62/545,322 32: 2017-08-14

33: US 31: 62/576,267 32: 2017-10-24

33: US 31: 62/443,205 32: 2017-01-06

54: AMINO ACID COMPOSITIONS AND METHODS FOR THE TREATMENT OF LIVER DISEASES

00: -

This disclosure provides pharmaceutical compositions comprising amino acid entities and uses thereof. Methods for improving liver function and for treating liver diseases comprising administering an effective amount of the compositions to a subject in need thereof are also disclosed.

21: 2019/03599. 22: 2019/06/05. 43: 2021/06/14

51: B60J; B60P; B60R

71: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD

72: VOSS, Michael

33: ZA 31: 2018/01525 32: 2018-03-06

54: A MODULAR FLATBED DECK, A MODULAR DROP-SIDE AND CANOPY ARRANGEMENT FOR THE FLATBED DECK

00: -

A modular flatbed deck attachable to a portion of a vehicle, the deck including at least two deck panels, which when located on the vehicle, are located in abutment with each other, wherein the length and/or width of the deck are adjustable by moving at least one of the at least two deck panels or by interchanging at least one of the at least two deck panels with at least one further deck panel to extend or shorten the deck length and/or width.

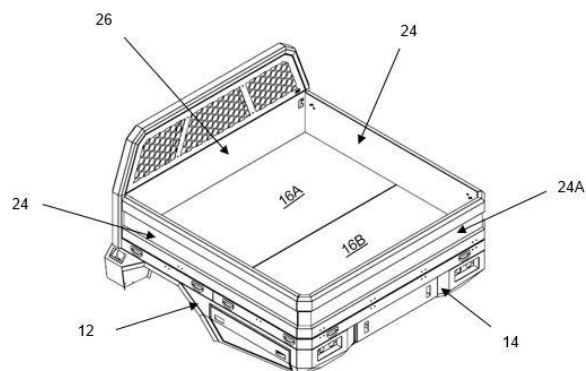
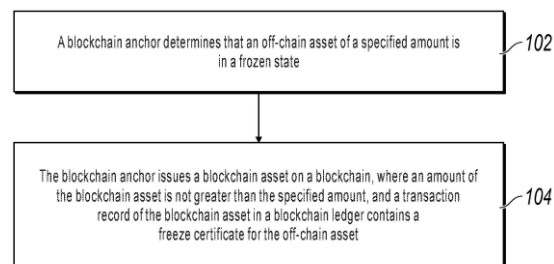


Figure 7

Perspective view of the first arrangement including drop side panels and a headboard



21: 2019/03673. 22: 2019/06/07. 43: 2021/06/23
51: G06Q

71: Alibaba Group Holding Limited

72: HU, Danding, LIN, Sen, ZHANG, Junliang

33: CN 31: 201810534318.6 32: 2018-05-29

54: BLOCKCHAIN ASSET ISSUING AND REDEMPTION METHODS AND APPARATUSES, AND ELECTRONIC DEVICE THEREFORE

00: -

One or more implementations of the present specification provide blockchain asset issuing and redemption methods and apparatuses, and an electronic device therefor. The method can include the following: determining, by a blockchain anchor, that an off-chain asset of a specified amount is in a frozen state indicating that the off-chain asset is isolated and protected from a plurality of factors. The blockchain anchor issues the blockchain asset on a blockchain, where an amount of the blockchain asset is not greater than the specified amount. The blockchain anchor publishes a transaction record of the blockchain asset in a blockchain ledger containing a freeze certificate for the off-chain asset.

21: 2019/03767. 22: 11/06/2019. 43: 2021/07/06

51: A61K; C07K; C12N

71: UNIVERSITY OF SOUTHERN CALIFORNIA

72: CHAUDHARY, Preet, M.

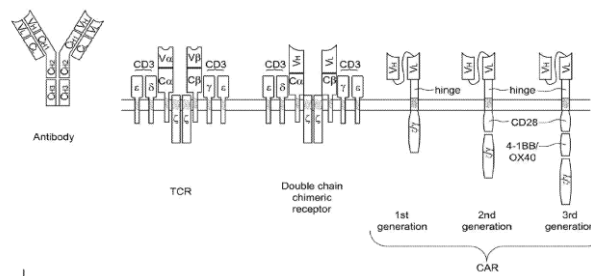
33: US 31: 62/429,619 32: 2016-12-02

33: US 31: 62/429,597 32: 2016-12-02

54: SYNTHETIC IMMUNE RECEPTORS AND METHODS OF USE THEREOF

00: -

The disclosure provides synthetic immune receptors (SIRs), nucleic acids encoding the SIRs, methods of making and using the SIRs, in, for example, adoptive cell therapy.



21: 2019/03795. 22: 2019/06/12. 43: 2021/06/23

51: C02F

71: ROC Water Technologies (Pty) Ltd

72: MAREE, Johannes Philippus

33: ZA 31: 2018/04084 32: 2018-06-19

54: TREATMENT OF WATER

00: -

A water treatment process (10) includes, in a crystallisation stage (12), passing a saline water feed (16) through an elongate conduit kept in a cold environment at a temperature below the equilibrium freezing temperature of the saline water, forming a slurry of brine and ice crystals inside the conduit, and, in a separation stage (14), separating the ice crystals from a bulk of the brine, producing a brine stream (22) and an ice stream (26). The elongate conduit is of a material, or has an inner material layer in contact with the saline water and with the

slurry of brine and ice crystals, with a thermal conductivity of less than 5 W/m.K and has a length configured to ensure formation of the slurry of brine and ice crystals in the conduit at the flow rate of the saline water feed through the elongate conduit.

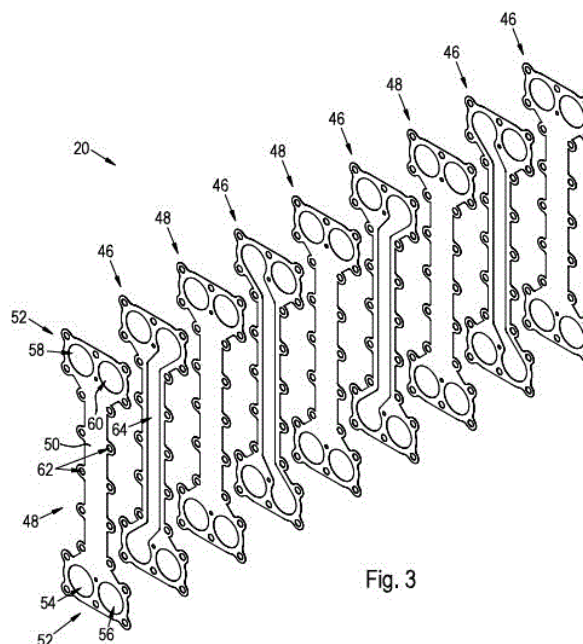
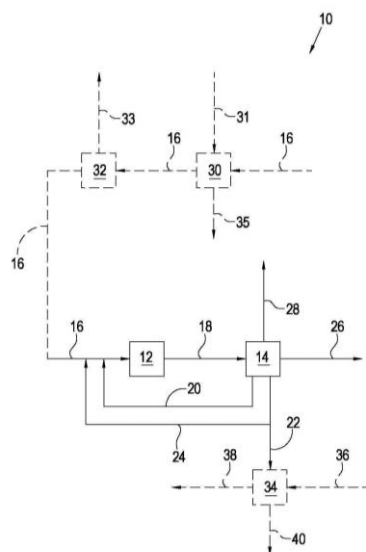


Fig. 3

21: 2019/03915. 22: 2019/06/18. 43: 2021/06/23
51: F03G; F24H; F28D
71: UNIVERSITY OF PRETORIA
72: LE ROUX, Willem Gabriel, DELLAR, Kyle Eric
33: ZA 31: 2018/04085 32: 2018-06-19

54: Recuperator

00: -

The invention relates to a generating apparatus which is configured to operate as a Brayton cycle and includes a recuperator (20). The recuperator (20) has a hot side inlet (38) and a hot side outlet (40) which are in flow communication and a cold side inlet (42) and a cold side outlet (44) which are in flow communication. The recuperator (20) includes a stack of plates comprising alternating flow plates (46) and gasket plates (48) such that a flow path (64) in each flow plate (46) and adjacent surfaces of the adjacent gasket plates (48) together form a flow passage between holes (54, 60) provided at opposite ends of the flow plates (46). Alternating flow plates (46) are rotated 180° about a longitudinal axis to define alternating hot and cold flow passages. A high temperature sealant is provided between adjacent surfaces of adjacent plates and the plates are secured together by an arrangement of bolts.

21: 2019/04074. 22: 2019/06/24. 43: 2021/06/23
51: B01D; B08B; E21C; E21F

71: Dust-A-Side International (Pty) Ltd

72: DE KOCK, Werner Rudolph

33: ZA 31: 2018/04237 32: 2018-06-25

54: A VACUUM DUST EXTRACTOR

00: -

This invention relates to a particle extractor assembly 10, 100 which is used to extract and collect dust and/or other airborne pollutants from a workplace. The assembly 100 is mobile as is mounted to a base 12 which includes a first platform 12.1 and a second pivotal platform 12.2 which is articulated to the first platform 12.1 and is configured to be pivotally displaced relative to the first platform between a lowered position and a discharge position in which it is inclined with respect to the first platform 12.1. The assembly also includes a vacuum pump 150 powered by an electrical motor 160, a particle filter 200 to filter out particles upstream of the vacuum pump and a drum arrangement which includes a collector drum 170 configured to rotate about an axis to mix its contents to form a slurry and it discharge the contents when in the discharge position.

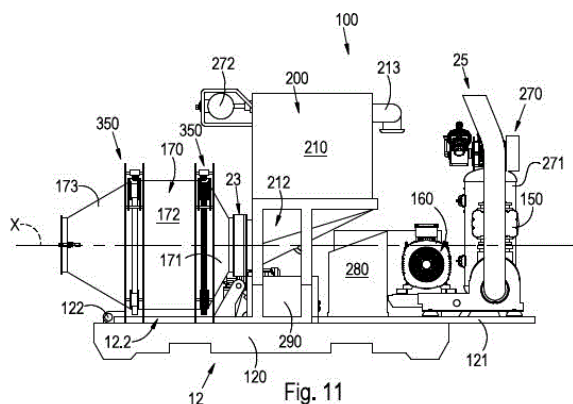


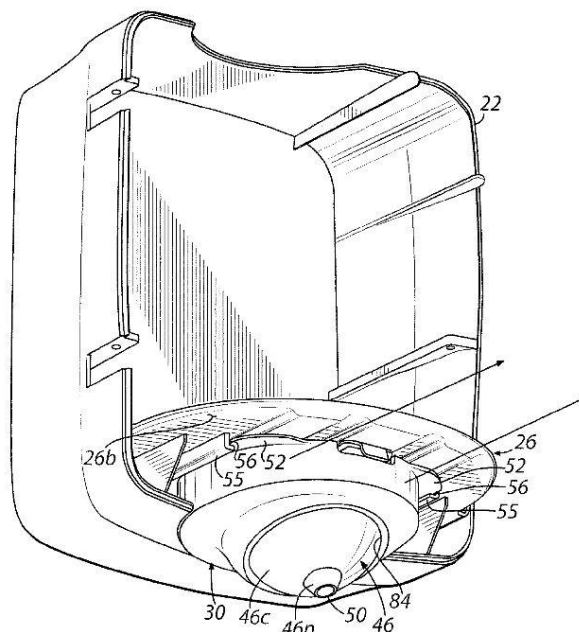
Fig. 11

21: 2019/04099. 22: 24/06/2019. 43: 2021/06/14
 51: A47K
 71: ESSITY HYGIENE AND HEALTH AKTIEBOLAG
 72: TEDESCO, Daniele Salvatore, BILLMAN, Craig,
 DOTSEY, Michael Austin, ALLARD, Bryan Fitzgerald
 33: US 31: 15/415,908 32: 2017-01-26

54: PAPER DISPENSER

00: -

An apparatus for dispensing paper product has an encasement that is configured to enclose the roll of paper. The encasement has a base at a longitudinal end for supporting the roll of paper in that encasement, with the base including a base opening for the paper to be inserted there through. The base also has an inner surface that is configured to contact the roll of paper, as well as an oppositely disposed outer surface. A dispensing portion of the apparatus is located adjacent the outer surface of the base, and is releasably coupled to the encasement. Coupling between the dispensing portion and the encasement is free of fasteners. The dispensing portion includes a rotatable dispensing element that has a dispensing orifice for dispensing paper from within said encasement to the exterior.



21: 2019/04331. 22: 01/07/2019. 43: 2021/08/12
 51: C02F

71: ETHONUS, INC

72: FLECKNER, Karen, NEYLON, Michael

33: US 31: 62/429,702 32: 2016-12-02

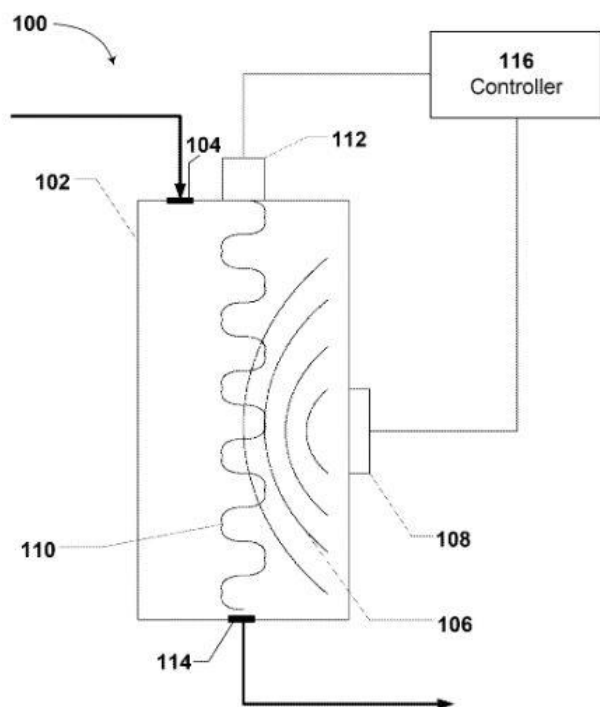
33: US 31: 62/517,340 32: 2017-06-09

33: US 31: 62/556,657 32: 2017-09-11

54: FLUID TREATMENT SYSTEMS AND METHODS OF USING THE SAME

00: -

A fluid treatment system that includes a sonic energy generator and an electromagnetic field generator is described herein. The fluid treatment system may include a controller that independently controls the sonic energy generator and the EMF generator while in use. Also described herein are methods of treating a fluid including applying a sonic signal to at least a portion of the fluid, and applying an electromagnetic field signal to at least the portion of the fluid by a direct conductive path. Methods of treating water that has been extracted by an atmospheric water generator unit using such a fluid treatment system are also described herein.



21: 2019/04410. 22: 04/07/2019. 43: 2021/06/14
51: C07C

71: LINDE AKTIENGESSELLSCHAFT

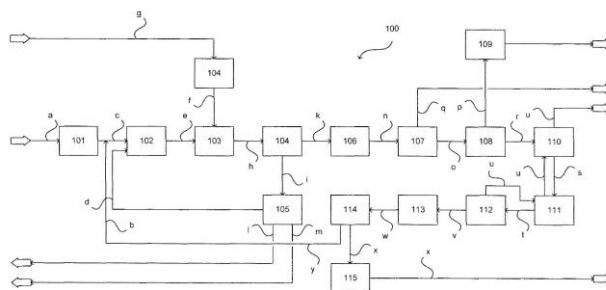
72: ZELHUBER, Mathieu, SCHUBERT, Martin,
WINKLER, Florian, MEISWINKEL, Andreas

33: EP 31: 16206447.1 32: 2016-12-22

54: METHOD AND PLANT FOR PRODUCING AN OLEFIN

00: -

Method and plant for producing an olefin The invention relates to a method for producing an olefin, in which method a reaction feedstock stream is formed that contains at least one paraffin, oxygen and water, and in which part of the paraffin and of the oxygen is converted into the olefin in the reaction feedstock stream, wherein a process gas is obtained through oxidative dehydrogenation using a catalyst, wherein the process gas contains at least the non-converted part of the paraffin and of the oxygen, the olefin and the water from the reaction feedstock stream. According to the invention, at least one characteristic value is determined that displays an activity of the catalyst, and an amount of water in the reaction feedstock stream is set based on the at least one determined characteristic value. The invention also relates to a corresponding plant (100).



21: 2019/04503. 22: 2019/07/09. 43: 2021/06/22
51: H02M

71: CRRC Yongji Electric Co., Ltd

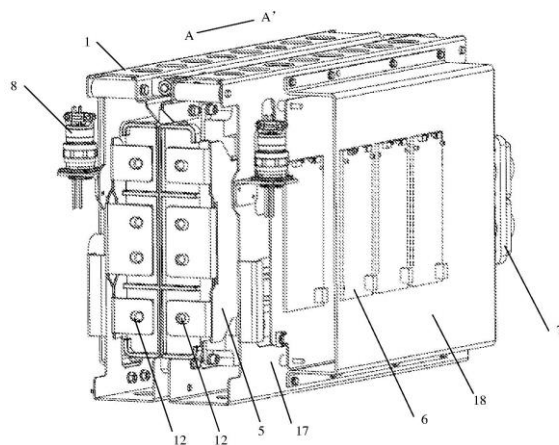
72: WANG, Bin, GAO, Yongjun, WANG, Lei, LI,
Shourong

33: CN 31: 201611132696.9 32: 2016-12-09

54: TRACTION POWER MODULE

00: -

A traction power module, comprising: a frame (1), a water-cooled substrate (3), two IGBT components (4), two composite busbars (5), a drive circuit board (6), a high-voltage connector (7), and a photoelectric connector (8); when the traction power module is used for rectification, any two of four high-voltage alternating current terminals (13) are connected in parallel to serve as rectifier input ends; or when the traction power module is used for inverter chopping, any three of the four high-voltage alternating current terminals (13) serve as inverter output ends, and the remaining high-voltage alternating current terminal (13) serves as a chopper output end. The traction power module reduces the number of types and economic costs of power modules, and facilitates installation and maintenance of workers.



21: 2019/04602. 22: 2019/07/15. 43: 2021/06/30

51: H01Q; H04B

71: DEZEGA HOLDING UKRAINE, LLC

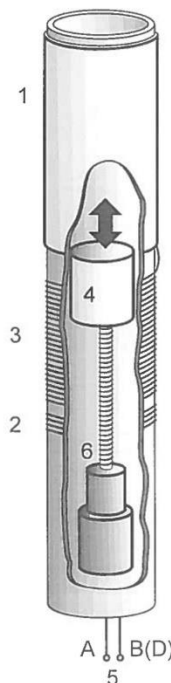
72: FEDOSOV, DMITRIY VITALYEVICH

33: RU 31: 2018126233 32: 2018-07-16

54: RESONANT RETUNABLE ANTENNA

00: -

The invention relates to the antenna technology used generally for providing a communication in the mines, in particular to the small resonant re-tunable antennas intended for providing an induction communication too. The technical effect is a possibility to adjust smoothly an operation frequency of the antenna within the wide radio wave range and, as a consequence, a possibility to compensate an effect of the outer objects having a capacity and switch the antenna to the other transceiving frequency channels. Re-tunable resonant antenna with a matching device, the said antenna comprising a matching device in the form of a transformer consisting of a primary and secondary windings; a transmitting vibrator in the form of 2D-or 3D-conducting body, the said vibrator being connected to the secondary winding of the transformer and located in the magnetic field of the matching transformer, is characterized in that, proximal to the coils of the secondary solenoid of the transformer, there is a capacity component coupled galvanically to the matching transformer in any point and is moved along the axis of the solenoid. Due to that the primary and secondary solenoids of the antenna transformer are made of sections which are connected in series via a relay, it is possible to retune a frequency not only within a single range, but to switch to the other range.



21: 2019/04716. 22: 2019/07/18. 43: 2021/06/14

51: B65G

71: BRUNONE, René

72: BRUNONE, René

33: FR 31: 18 56765 32: 2018-07-20

54: BELT CONVEYOR MAINTENANCE PROCESS AND DEVICE, CORRESPONDING ASSEMBLY

00: -

A process is provided for the maintenance of a belt conveyor (2) comprising a longitudinal conveyor belt (3) and a plurality of support stations (5) for the conveyor belt (3) distributed along the conveyor belt (3), each support station (5) comprising a cradle (9) on which the conveyor belt (5) rests. The method comprises the following steps: - inserting an inflatable pad (27) in a deflated state below the conveyor belt (3), in a lifting position near one of the support stations (5); - inflating the inflatable pad (27) to an inflated state in which the conveyor belt (3) rests directly on the inflatable pad (27) and no longer rests on the cradle (9) of said support station (5); - performing a maintenance operation on said support station (5); and - deflating the inflatable pad (27) to its deflated state.



00: -
Implementations of conductive energy weapons (CEWs) may include a shock generating circuit configured to couple to a power source, two electrodes operatively coupled to the shock generating circuit, and a safety circuit operatively coupled to the shock generating circuit. The shock generating circuit may be configured to generate a first pulse train and deliver the first pulse train to a target, and may be configured to generate at least a second pulse train and deliver the at least second pulse train to a target. The safety circuit may be configured to prevent the CEW from applying pulse trains to the target after a predetermined number of pulse trains. The first pulse train may include two or more pulses having waveforms substantially identical with each other, each of the waveforms of

FIG. 4

The chemical structure shows a central core of a dendritic poly(ether amide) with four arms. Each arm consists of a repeating unit of $[-O-CH_2-CH_2-O-C(=O)-NH-CH_2-CH_2-]$ with a subscript n . The arms are terminated with peptide chains. The top-left arm is terminated with $-NH-C(=O)-CH_2-CH_2-S-C(=O)-NH-Ser-His-Arg-His-OH$. The top-right arm is terminated with $-NH-C(=O)-CH_2-CH_2-S-C(=O)-NH-N-(His)_2-Arg-His-Ser-Phe-OH$. The bottom-left arm is terminated with $-NH-C(=O)-CH_2-CH_2-S-C(=O)-NH-N-(His)_3-Arg-His-Ser-Phe-OH$. The bottom-right arm is terminated with $-NH-C(=O)-CH_2-CH_2-S-C(=O)-NH-N-(His)_3-Arg-His-Ser-Phe-OH$.

Page | 139

54: ANTISEPTIC COMPOSITION COMPRISING POLYVINYLPYRROLIDONE AND UNITHIOL AND USE OF THE COMPOSITION

00: -

The invention relates to novel polymer-based antiseptic compositions for treating wounds and/or for use in surgical operations, which form a film on the wound surface and have antiseptic, anesthetic and antitoxic effects. The compositions according to the invention comprise polyvinylpyrrolidone with a weight average molecular weight in the range of 1,000,000 to 3,000,000 Da, one or more antiseptics, unithiol, dimethylsulfoxide, and one or more anesthetics, preferably local anesthetics. In addition, the present invention relates to use of the compositions according to the invention in a wound treatment, as well as methods for treating wounds using the compositions according to the invention comprising the step of applying the composition according to the invention to a wound surface.



21: 2019/05405. 22: 2019/08/15. 43: 2021/06/23

51: C07D

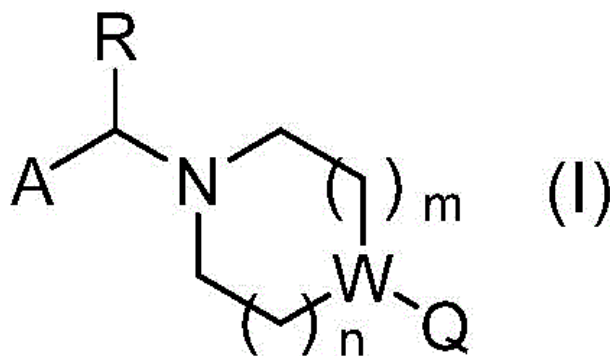
71: Asceneuron S.A.

72: QUATTROPANI, Anna, KULKARNI, Santosh S., GIRI, Awadut Gajendra

54: SULFOXIMINE GLYCOSIDASE INHIBITORS

00: -

Compounds of formula (I) wherein A, R, W, Q, n and m have the meaning according to the claims can be employed, inter alia, for the treatment of tauopathies and Alzheimer's disease.



21: 2019/05716. 22: 2019/08/29. 43: 2021/06/22

51: E21B; G01C

71: Sewell Power Transfer Pty Ltd

72: SEWELL, Samuel John

33: AU 31: 2017900646 32: 2017-02-27

54: AN ALIGNMENT SYSTEM

00: -

Apparatus for use in maintaining a desired orientation of an implement is disclosed. The apparatus comprises orientation sensing equipment operable to sense the orientation of the implement, and an orientation indicator operable to be mounted relative to the implement, the orientation indicator having a plurality of indication portions, and when the orientation indicator is mounted relative to the implement, the indication portions are positioned so as to be visible from different locations around the implement. In use, when the orientation of the implement deviates from the desired orientation, one or more indication portions provide a visible indication of a direction in which the implement has deviated from the desired orientation.

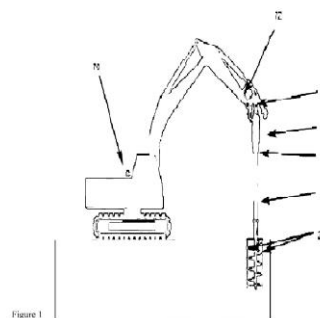


Figure 1

21: 2019/05950. 22: 2019/09/10. 43: 2021/06/23

51: B25C

71: NIEUWENHUYS, Kathleen

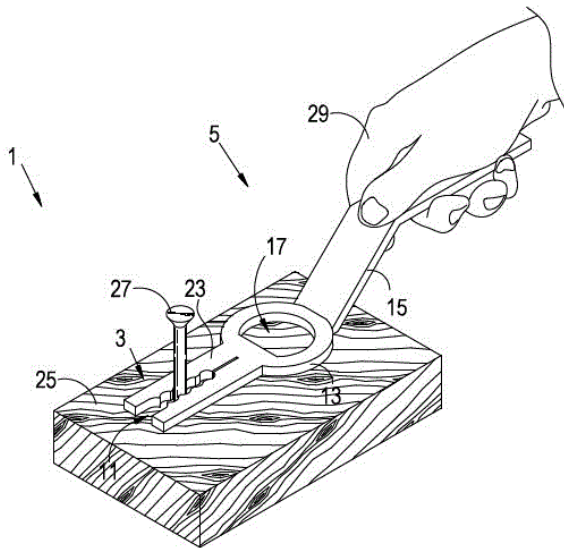
72: NIEUWENHUYS, Kathleen

33: ZA 31: 2018/06256 32: 2018-09-18

54: Device for Holding Nails

00: -

The invention provides a utility tool 1 for holding nails whilst hammering the nail into an object. The tool 1 includes a nail holding portion 3 and a handle 7 configured such that a user's hand is remote from the nail being hammered. The utility tool also serves to protect the surface of the object into which the nail is being hammered.



21: 2019/06026. 22: 2019/09/12. 43: 2021/07/22

51: D05B

71: Taiyuan University of Technology

72: LU, Zhiwen, LIU, Feng, ZHAO, Xiaofang, HUO, Bingrong, HOU, Shanshan, MA, Mengchao

33: CN 31: 201910634677.3 32: 2019-07-15

54: SEWING MACHINE PRESSER FOOT FOR SEWING WAVY LINE TRACK

00: -

The present invention discloses a sewing machine presser foot for sewing a wavy line track. A presser foot handle is disposed above the presser foot plate and connected to a sewing machine. The fabric feeding guiding device includes a rotatable closed fabric feeding curved surface. The fabric feeding curved surface includes a first closed guiding curve edge and a second closed guiding curve edge. The first guiding curve edge includes two first transition points, the second guiding curve edge includes two second transition points. The two first transition points divide the first guiding curve edge into a first inner guiding edge and a first outer guiding edge; the two second transition points divide the second

guiding curve edge into a second inner guiding edge and a second outer guiding edge. The sewing machine presser foot is simple in structure and low in cost and can sew the wavy line track.

21: 2019/06101. 22: 2019/09/16. 43: 2021/06/14

51: B25J; B62D

71: INDUNA ROBOTICS (PTY) LTD

72: LEUSCHNER, Andries Hermann

33: ZA 31: 2017/01277 32: 2017-02-21

54: ROBOTIC LIMB ARRANGEMENT AND ASSOCIATED ROBOT

00: -

A mobile robot(10) which includes a body(12) and a plurality of articulated limb arrangements(14) connected to the body at spaced- apart positions, each limb arrangement includes a plurality of links, each of which is connected to an adjacent link, at least one of the links(26) being angularly displaceable relative to the link to which is connected about an axis through at least 360°(32).

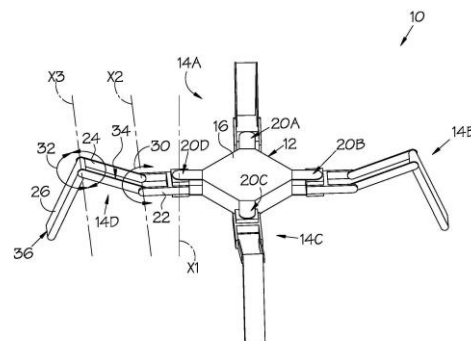


Fig. 1

21: 2019/06230. 22: 2019/09/20. 43: 2021/06/22

51: B61C

71: Transportation IP Holdings, LLC

72: SONDUR, Kaushik D., BALU, Giri, MUDALIAR, Sasikumar Vishwanathan, SEKHAR, Tharunendra, SABARAD, Jayaprakash, VERMA, Rajeev R.

33: US 31: 16/140,359 32: 2018-09-24

33: US 31: 16/140,329 32: 2018-09-24

54: METHOD AND SYSTEMS FOR AN AUXILIARY POWER UNIT FOR A LOCOMOTIVE

00: -

Various methods and systems are provided for an auxiliary power unit of a locomotive that provides electrical power and compressed air while a main engine of the locomotive is not running. In one example, a system for a locomotive having a main power unit (MPU) coupled to an alternator, and an

auxiliary power unit (APU), and the APU is configured to provide power to one or more hotel loads of the locomotive, comprises: a controller with computer readable instructions stored in non-transitory memory that when executed during operation of the locomotive cause the controller to initiate operation of the APU in response to at least one of: a state of charge (SOC) of a battery of the locomotive being below a determined SOC threshold level, and the MPU is not in operation, and a drain load is applied to the battery that will deplete the battery to a SOC level that is less than the determined SOC threshold level in less time than a determined period, and the MPU is not in operation, and an air pressure level of an air reservoir of the locomotive is below a determined air pressure threshold level, and the MPU is not in operation.

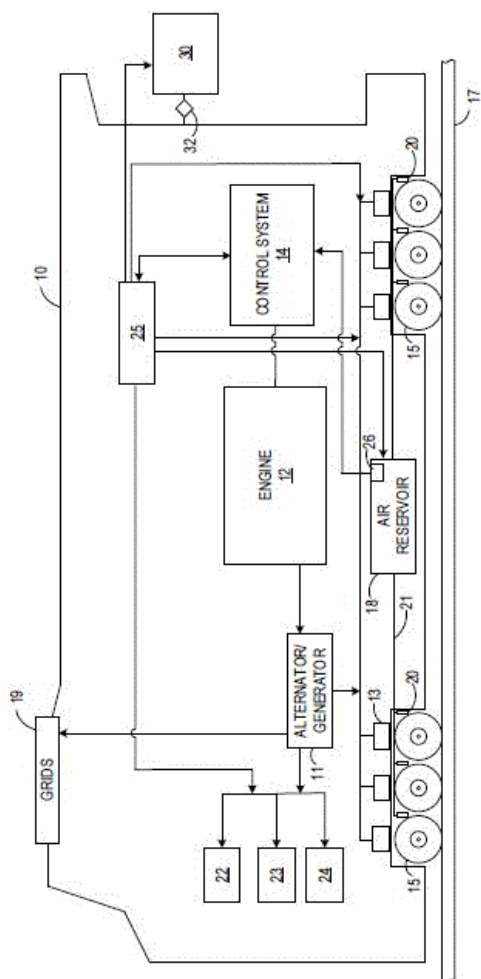


FIG. 1

21: 2019/06464. 22: 2018/04/05. 43: 2021/06/22

51: A61K; C07D; A61P

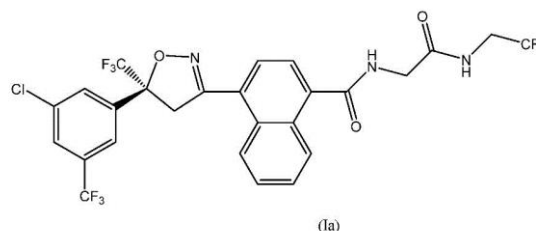
71: BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.

72: GORTER DE VRIES, Roelof, Johannes, BAILLON, Bruno, LAFONT Sylvaine, GAY DE SAINT MICHEL, Myriam, KOZLOVIC, Stephane

33: US 31: 62/482,175 32: 2017-04-05

54: CRYSTALLINE FORMS OF (S)-AFOXOLANER
00: -

The present invention provides crystalline forms of compound of formula (Ia) and processes of making the crystalline forms. Also provided are compositions comprising the crystalline forms and crystalline forms for treating or preventing parasitic infections in an animal.



21: 2019/06485. 22: 2019/10/02. 43: 2021/06/22

51: A61P; C07K

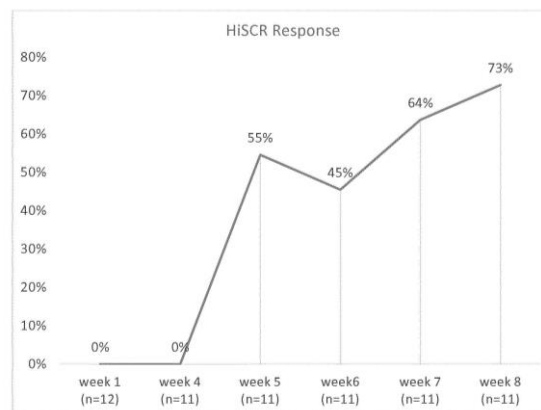
71: InflaRx GmbH

72: GUO, Renfeng, RIEDEMANN, Niels C.

33: EP(DE) 31: 17164573.2 32: 2017-04-03

54: TREATMENT OF INFLAMMATORY DISEASES WITH INHIBITORS OF C5A ACTIVITY
00: -

The present invention relates to inhibitors of C5a activity and their use in the treatment of cutaneous, neutrophilic, inflammatory diseases in a subject.



21: 2019/06488. 22: 02/10/2019. 43: 2021/06/22
51: C07D

71: ADAMA MAKHTESHIM LTD.

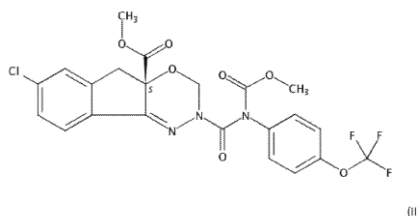
72: VENKATARAMANA, Rajuri, BICIDI, Jayapal Reddy, PILLAI, Bijukumar Gopinathan, MANNAM, Sreedevi

33: IN 31: 201731011147 32: 2017-03-29

54: NEW CATALYTIC SYSTEM FOR SCALABLE PREPARATION OF INDOXACARB

00: -

It is an object of the present invention to provide a novel and advantageous process for commercially preparing of indoxacarb which is racemic or enantiomerically enriched at chiral center from its amide precursor using a new catalytic system. More particularly, it relates to an efficient method of preparation of indoxacarb which is racemic or enantiomerically enriched at chiral center from methyl-7-chloro-2,5-dihydro-2-[[[(4-trifluoromethoxy) phenyl]amino]carbonyl]-indeno[1,2-e][1,3,4]oxadiazine-4a(3H) carboxylate represented as formula (I) using methoxycarbonylation agent and metal salt of methylsulfinylmethylide in hydrocarbon solvent in the presence of organic base and phase transfer catalyst.



21: 2019/06543. 22: 04/10/2019. 43: 2021/06/24
51: H02J

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: WAN, SHIMING, ZHANG, JIALIANG

33: CN 31: PCT/CN2017/079784 32: 2017-04-07

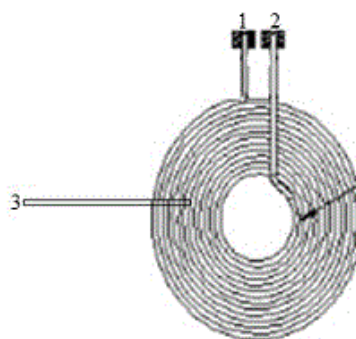
33: CN 31: PCT/CN2017/080334 32: 2017-04-13

54: WIRELESS CHARGING DEVICE, DEVICE-TO-BE-CHARGED AND METHOD FOR CONTROLLING THE SAME

00: -

Provided are a wireless charging device, a device to-be-charged, a method for controlling a wireless charging device, and a method for controlling a device to-be-charged. The wireless charging device (10) includes a wireless transmitting circuit (12), a transmitting coil (14), and a control circuit (16). The

transmitting coil (14) includes multiple pairs of joints, and transmitting-coil turns defined by each pair of joints is different. The control circuit (16) is configured to select one of the multiple pairs of joints to be electrically coupled with the wireless transmitting circuit. The transmitting coil includes multiple pairs of joints, and the control circuit can select and switch between the multiple pairs of joints according to actual needs, which is possible to improve flexibility of wireless charging.



21: 2019/06558. 22: 04/10/2019. 43: 2021/06/24
51: H02J

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: WAN, SHIMING, ZHANG, JIALIANG, LIN, SHANGBO, LI, JIADA

33: CN 31: PCT/CN2017/079784 32: 2017-04-07

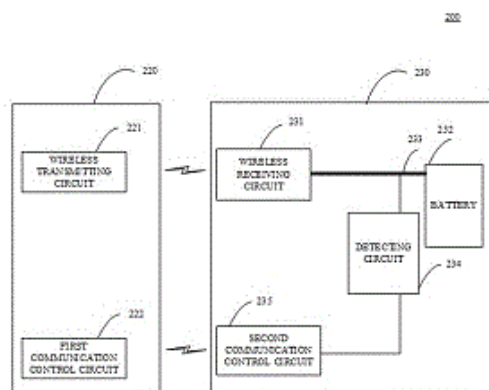
33: CN 31: PCT/CN2017/080334 32: 2017-04-13

54: WIRELESS CHARGING SYSTEM, DEVICE, AND METHOD, AND DEVICE TO-BE-CHARGED

00: -

Provided are a wireless charging system, a wireless charging device, and a device to-be-charged. The wireless charging system includes a wireless charging device and a device to-be-charged. The wireless charging device is configured to charge the device to-be-charged wirelessly. The wireless charging device includes a wireless transmitting circuit and a first communication control circuit; the device to-be-charged comprises a battery, a wireless receiving circuit, a detecting circuit, and a second communication control circuit. The second communication control circuit is configured to conduct wireless communication with the first communication control circuit, to send to the first communication control circuit at least one of an output voltage and an output current of the wireless

receiving circuit detected by the detecting circuit, whereby the first communication control circuit adjusts a transmission power of the wireless transmitting circuit, to meet charging requirements of the battery.



21: 2019/06760. 22: 2019/10/14. 43: 2021/06/23

51: A47K; A61G

71: MAVHUNGU, Portia Refilwe

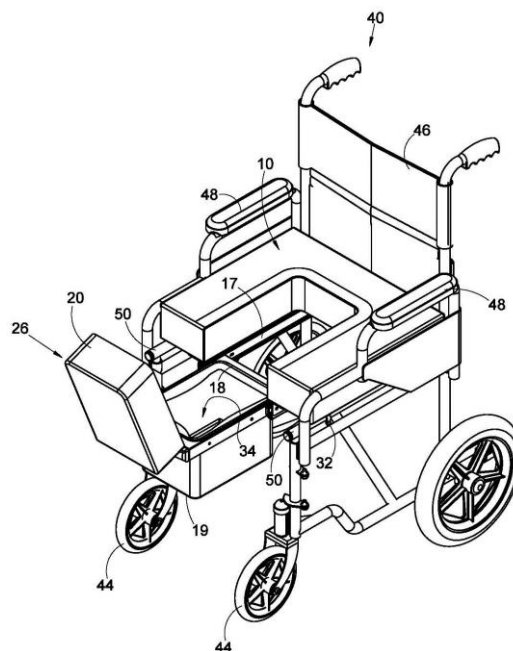
72: MAVHUNGU, Portia Refilwe, CHELLAN, Darushna

33: ZA 31: 2017/02260 32: 2017-03-31

54: SEAT ARRANGEMENT FOR A WHEELCHAIR AND A WHEELCHAIR INCLUDING SUCH A SEAT ARRANGEMENT

00: -

A seat arrangement (10) for a wheelchair, as well as a wheelchair (40) incorporating such a seat arrangement (10), are disclosed. The arrangement includes a base, a connecting member and a supporting member. The base forms part of or is mounted to a seat of the wheelchair (40). The connecting member is slidably mounted to the base and displaceable relative to the base between a retracted position and an extended position. The supporting member is pivotally connected to the connecting member and shaped substantially so as to mate with the seat opening (22). The supporting member is pivotable between an open position and a closed position. When the connecting member is in the retracted position and the supporting member is in the closed position, the supporting member mates with the seat opening (22) to define a sitting surface, and when the supporting member is in the open position, a seat opening (22) is exposed.



21: 2019/06853. 22: 2019/10/17. 43: 2021/06/14

51: B32B; C03C; G02B

71: Vitro Flat Glass LLC

72: WAGNER, Andrew V., BUCHANAN, Michael J.

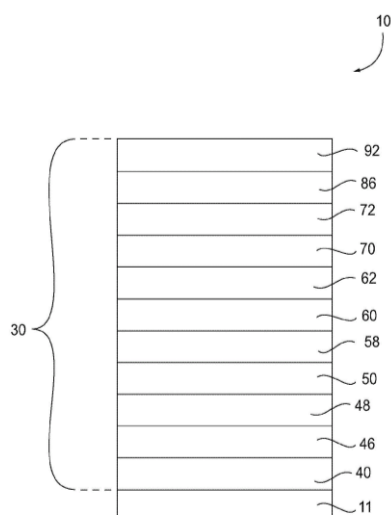
33: US 31: 62/484,508 32: 2017-04-12

54: SOLAR CONTROL COATING FOR LAMINATED GLAZING

00: -

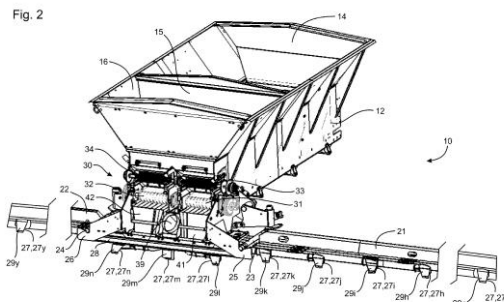
A laminated glazing (110) having a first ply (112) connected to a second ply (118) by a polymeric interlayer (130), wherein the first ply (112) has a first major surface (114) and a second major surface (116), and the second ply (118) has a third major surface (120) and a fourth major surface (122); and a solar control coating (30) located on at least one of the major surfaces, the solar control coating (30) including: a first phase adjustment layer (40); a first metallic layer (46) located over the first phase adjustment layer (40); a first primer layer (48) located over the first metallic layer (46); a second phase adjustment layer (50) located over the first primer layer (48); a second metallic layer (58) located over the second phase adjustment layer (50); a second primer layer (60) located over the second metallic layer (58); a third phase adjustment layer (62) located over the second primer layer (60); a third metallic layer (70) located over the third phase adjustment layer (62); a third primer layer (72) located over the third metallic layer (70); a fourth

phase adjustment layer (86) located over the third primer layer (72); and a protective layer (92) located over the fourth phase adjustment layer (86).



21: 2019/07000. 22: 23/10/2019. 43: 2021/06/14
51: A01C
71: SALFORD GROUP INC.
72: GRAY, Geof J., AVERINK, John Mark, BAKER, Bradley William, DYCK, Jesse Abram, PASMA, Chad Derek, LEHMAN, Adam, RICE, Dennis
33: US 31: 62/476,383 32: 2017-03-24
54: SPREADER FOR PARTICULATE MATERIAL
00: -

A spreader for spreading particulate material has a plurality of outlets transversely spaced-apart in a direction perpendicular to a direction of travel of the spreader. The outlets are configured to receive the material from a metering device and to dispense an amount of the material to mid-rows between crop rows on a field such that the plurality of outlets dispenses half the amount of material to an outermost mid-row compared to the amount of material dispensed to the other mid-rows. Also, the metering device may have two metering elements, which may be controlled to meter the material to only one side of the spreader. A centrally located outlet situated on a driving line of the spreader may receive material from both metering elements so that the centrally located nozzle can dispense the material whenever one or the other side of the spreader is not dispensing material.

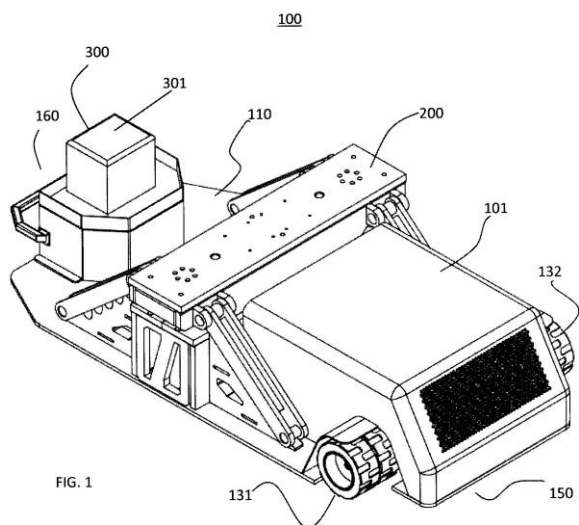


21: 2019/07017. 22: 24/10/2019. 43: 2021/06/22
51: A61K; A61P
71: CIPLA LIMITED
72: MALHOTRA, Geena, JOSHI, Kalpana, RAUT, Preet
33: IN 31: 201721013733 32: 2017-04-18
54: COMBINATION THERAPY FOR USE IN TREATING RETROVIRAL INFECTION
00: -

A pharmaceutical composition is provided comprising combination of antiretroviral drugs optionally in combination of pharmacokinetic boosters. The formulation is used for the treatment of diseases caused by retroviruses. The process of preparation of the formulation is also provided.

21: 2019/07103. 22: 2019/10/28. 43: 2021/06/22
51: B66F
71: Nordic Minesteel Technologies Inc.
72: DESORMEAU, Wayne, WEAVER, Jeff, MATHIEU, Guy
33: US 31: 15/589,947 32: 2017-05-08
54: TELESCOPING JACK FOR LIFTING LARGE CAPACITY TRUCKS
00: -

A jack, comprising: a top plate adapted to contact a load; an intermediate plate positioned below the top plate, the intermediate plate having a channel formed therein; a base plate positioned below the intermediate plate; a first pair of actuators coupled between the base plate and the intermediate plate, one of the first pair of actuators positioned on either side of the channel; and, a second pair of actuators coupled between the channel of the intermediate plate and the top plate; wherein the first and second pairs of actuators are operable to move the top plate and the intermediate plate between respective lowered positions and respective raised positions to thereby lower and raise the load.



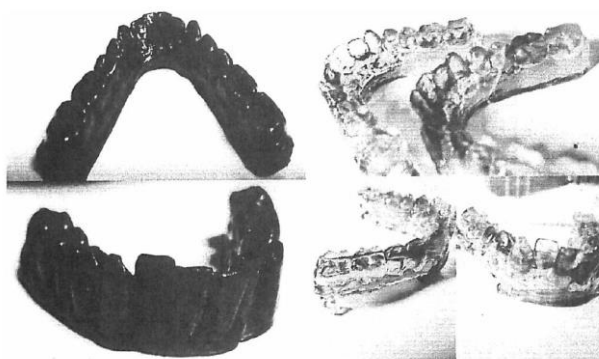
21: 2019/07130. 22: 29/10/2019. 43: 2021/06/23
 51: A01C; A01M; B60P
 71: YARA INTERNATIONAL ASA
 72: VAN SANTEN, Wouter
 33: EP 31: 17181955.0 32: 2017-07-18
54: MOBILE FERTILIZER DEVICE FOR STORING AND SUPPLYING MULTIPLE FERTILIZERS TO A GREENHOUSE

00: -
 The present invention relates to a mobile device for storing and supplying multiple liquid fertilizers, comprising a housing, enclosing : two or more storage units, each suitable for storing a liquid fertilizer, wherein each storage unit is provided with a storage unit level measurement system, a storage unit filling system and a storage unit venting system; a safety drain liquid fertilizer storage, comprising at least two separate collectors for the separate containment of spilled liquid fertilizer; a dosing and controlling system; and wherein the housing is equipped with a connection for the input of a water flow, at least two connections for the output of liquid fertilizer, and an output for venting gasses. In particular is the invention concerned with a method of storing and supplying liquid fertilizers to a greenhouse, in particular to the fertigation system thereof, using the above described system.

21: 2019/07156. 22: 29/10/2019. 43: 2021/06/14
 51: B29C; C08F; C08G; C08K; B33Y
 71: CENTRO TECNOLÓGICO DE NANOMATERIALES AVANZADOS, S.L.
 72: MORA BARRIOS, Karla Daniela

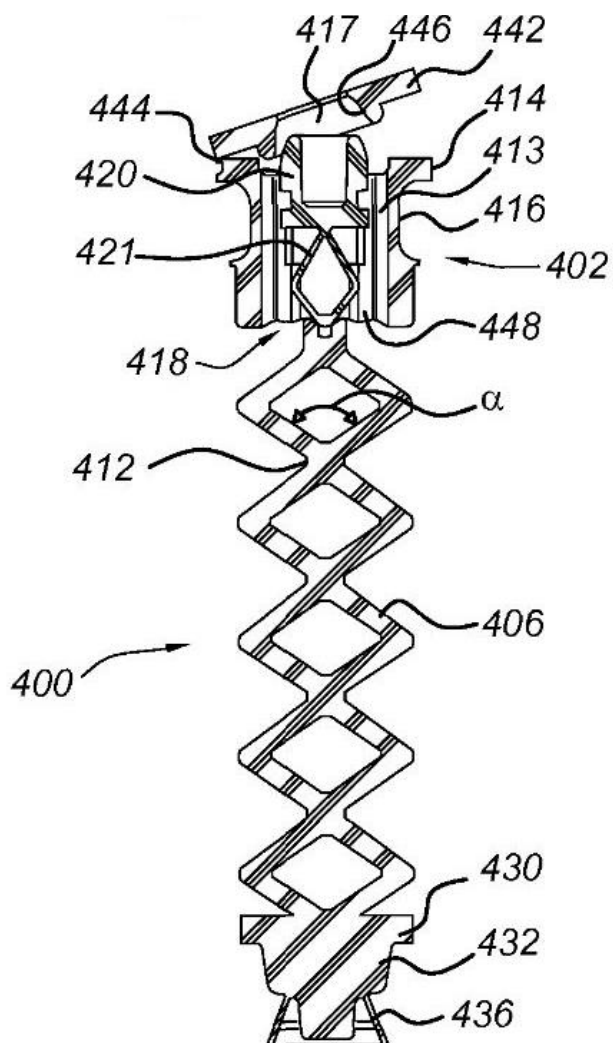
33: ES 31: P201700369 32: 2017-03-31
54: RADIATION-CURABLE RESIN COMPOSITION AND PRODUCTION METHOD THEREOF

00: -
 The invention relates to a radiation-curable resin composition, suitable for use in 3D printing, and to the production method thereof, i.e. the method for producing three-dimensional objects using radiation by means of 3D printing of the laser, DLP or LCD type, with successive photopolymerisable layers. The radiation-curable resin composition comprises one or more epoxy-acrylic resins and polymethyl methacrylate, graphene, halloysite nanotubes and one or more photoinitiators.

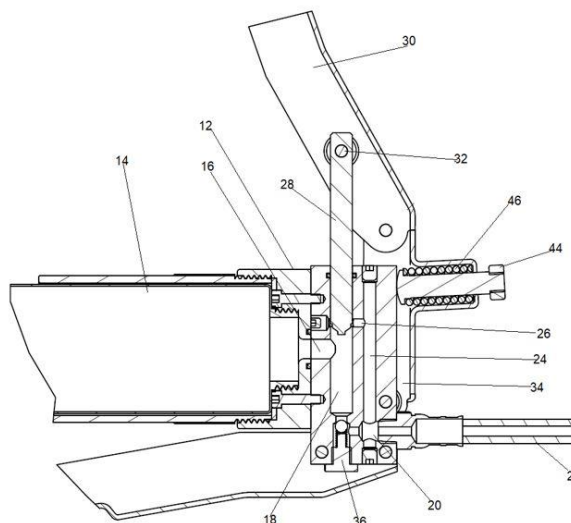


21: 2019/07157. 22: 29/10/2019. 43: 2021/06/14
 51: A47K; B05B
 71: ESSITY HYGIENE AND HEALTH AKTIEBOLAG
 72: LINDSTRÖM, Håkan, BERGMAN, Peter, NILSSON, Hugo
54: PLASTOMER SPRING WITH CAPTIVE VALVE

00: -
 The disclosure relates to a fluid pump including a plastomer spring with a captive valve element provided in an integrally formed valve chamber. The spring includes a first end portion and a second end portion and one or more spring sections connecting the first end portion to the second end portion, which spring sections can be compressed in the axial direction from an initial condition to a compressed condition and can subsequently expand to their initial condition. The valve chamber is formed in the first end portion.



located upstream of the grease inlet port, linked to the grease outlet port by a pressure return passage and openable into the pressure chamber, for returning grease under pressure to the pressure chamber and grease reservoir, the piston acting as a valve movable between a first position where the pressure return port is closed and a second position where the pressure return port is open.



21: 2019/07184. 22: 2019/10/31. 43: 2021/06/14
51: F16N
71: GURTECH (PTY) LTD
72: LUSSO, Cary Donald
33: AU 31: 2018282292 32: 2018-12-18
54: GREASE GUN PRESSURE RETURN VALVE
00: -

The invention provides an apparatus configured to return grease under pressure from the delivery line of a grease gun back to a grease reservoir; the grease gun comprising a dispensing head fitted to a grease reservoir and including a grease inlet port in fluid communication with a grease outlet port via a pressure chamber; a piston for displacing the grease from the grease inlet port to the grease outlet port; and a one-way flow control valve to inhibit the reverse flow of grease from the grease outlet port back into the pressure chamber; the dispensing head further comprising a pressure return port

21: 2019/07213. 22: 2019/10/30. 43: 2021/06/02
51: G01N

71: Scanmin International (Pty) Ltd.
72: BUTTEMER, Keith John, WHITTINGTON, Richard

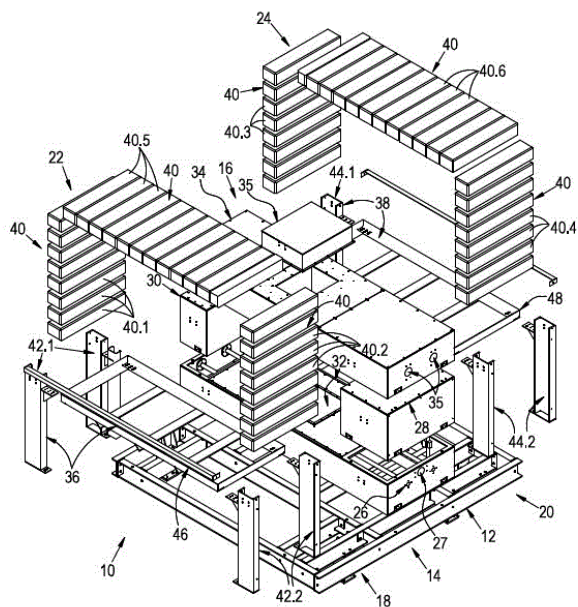
33: ZA 31: 2018/07280 32: 2018-10-31

54: MODULAR ONLINE ELEMENTAL ANALYSER AND RELATED METHOD OF ASSEMBLY

00: -

A modular elemental analyser is provided, comprising a base frame defining a substantially central zone to support an analyser unit arrangement, and a pair of side shield zones, on either side of the central zone, each side shield zone supporting a shield arrangement. The analyser unit arrangement comprises a bottom unit to accommodate a back-scatter detector and radioactive isotope, the bottom unit being securable to the central zone of the base frame, and a pair of spaced apart spacer units, to define a tunnel cavity therebetween, the spacer units being securable to the ends of the bottom unit. The analyser unit arrangement further comprises a top unit, the top

unit being securable to the spacer units so as to extend across the pair of spaced apart spacer units, with each shield arrangement comprising a support frame to accommodate a plurality of shield blocks.



21: 2019/07259. 22: 2019/10/31. 43: 2021/06/14
51: C07K

71: Amgen Inc.

72: BATES, Darren L., SHI, Donghui, LLOYD, David J., BONDARENKO, Pavel, MICHAELS, Mark L., HAGER, Todd, MIN, Xiaoshan, UMEDA, Aiko, CHEN, Irwin, WANG, Zhulun

33: US 31: 62/522,559 32: 2017-06-20

54: METHOD OF TREATING OR AMELIORATING METABOLIC DISORDERS USING BINDING PROTEINS FOR GASTRIC INHIBITORY PEPTIDE RECEPTOR (GIPR) IN COMBINATION WITH GLP-1 AGONISTS

00: -

Methods of treating metabolic diseases and disorders using an antigen binding protein specific for the GIPR polypeptide are provided. In various embodiments the metabolic disease or disorder is type 2 diabetes, obesity, dyslipidemia, elevated glucose levels, elevated insulin levels and diabetic nephropathy. In certain embodiments the antigen binding protein is administered in combination with a GLP-1 receptor agonist.

21: 2019/07279. 22: 01/11/2019. 43: 2021/07/30
51: A01N

71: TLC PRODUCTS

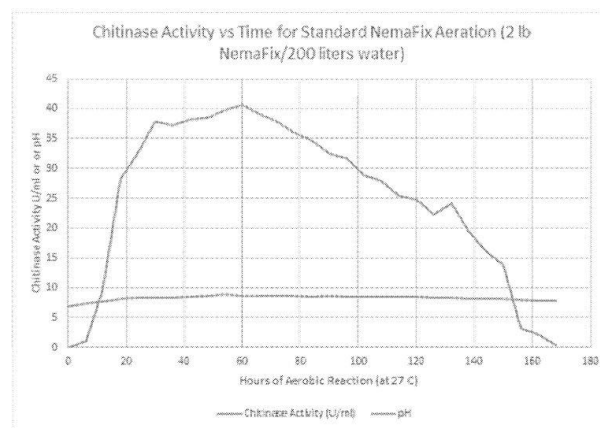
72: WONG, John M

33: US 31: 62/501,500 32: 2017-05-04

54: METHODS OF PEST CONTROL

00: -

Methods of controlling agricultural pests are disclosed. An aerated liquid mixture is formed from a composition containing a bacterial nutrient source, a nitrogen-containing compound, a phosphate-containing compound, a magnesium-containing compound, a buffer, a chitinase inducer, and at least one strain of bacteria that produces chitinase. The liquid mixture is administered to soil and plants, and acts as an organic biological pesticide.



21: 2019/07321. 22: 2019/11/05. 43: 2021/07/22
51: B41M; H01L

71: JILIN JIANZHU UNIVERSITY

72: Xingzhen YAN, Jiaming ZHANG, Xu LI, Kai SHI, Zhaowei SHEN, Lu LU, Lu ZHOU, Hongyu BIAN, Yaodan CHI, Xiaotian YANG

33: CN 31: 201811305567.4 32: 2018-11-05

54: METAL GRID ELECTRODE FABRICATION METHOD BASED ON INK-JET PRINTING TECHNOLOGY

00: -

The present invention discloses a metal grid electrode fabrication method based on an ink-jet printing technology. The fabrication method includes: fabricating regular metal grids on a substrate by using an ink-jet printing technology; obtaining different spacings of printed lines in multiple metal grids; determining, according to the different spacings of the printed lines, multiple photoelectric properties of a metal grid electrode formed by the printed lines; and optimizing the multiple photoelectric properties by regulating annealing treatment temperature, to determine an optimal

metal grid electrode. The fabrication method provided in the present invention can simplify a metal grid electrode fabrication process and avoid a material waste and environmental pollution.

21: 2019/07588. 22: 2019/11/15. 43: 2021/06/14
51: A61K; A61P; C07K

71: Institute of Pathogen Biology, Chinese Academy of Medical Sciences, Shanxi Kangbao Biological Product Co., Ltd.

72: HE, Yuxian, CHONG, Huihui, ZHU, Yuanmei

54: POTENT HIV INHIBITING LIPOPEPTIDE, DERIVATIVE THEREOF, PHARMACEUTICAL COMPOSITION THEREOF AND USE THEREOF
00: -

A potent HIV inhibiting lipopeptide, a derivative thereof, a pharmaceutical composition thereof and use thereof. The lipopeptide is as follows: a) the lipopeptide is formed by connecting a polypeptide having antiviral activity to a lipophilic compound which is linked to a carboxy-terminal of the polypeptide, or b) the lipopeptide is formed by connecting a polypeptide having antiviral activity to a terminal protecting group and a lipophilic compound which is linked to a carboxy-terminal of the polypeptide, wherein the terminal protecting group is an amino terminal protecting group and/or a carboxy-terminal protecting group; the polypeptide sequence consists of 28 amino acid residues, corresponding to the 127th-154th amino acids in the HIV-1 strain HXB2 gp41 sequence. Compared with T-20, the anti-HIV activity of the lipopeptide is several thousands times or even tens of thousands times higher, and is also significantly higher than that of anti-HIV lipopeptides C34-Chol, LP-19, and the like.

21: 2019/07646. 22: 2019/11/19. 43: 2021/06/23
51: B27N; C04B; D21J

71: ZETLAND TECHNOLOGIES LIMITED

72: SYMONS, Michael Windsor, KHOZA, Tebogo Ankie, REDDY, Goddeti Siva Mohan, CHIUTA, Steven

33: US 31: 62/487,816 32: 2017-04-20

54: PRESSED BOARD PRODUCTS

00: -

A method of producing a pressed board product of a predetermined thickness specification includes subjecting a predetermined mass per unit area of a precursor mixture to pressing in a press, at a

predetermined pressing force with or without the application of heat. The precursor mixture comprises particulate material, an alkali metal silicate, polyvinyl alcohol, and a geopolymerisation promoter for promoting geopolymerisation of the alkali metal silicate. The method includes, prior to and/or during and/or after subjecting the precursor mixture to the pressing, allowing at least partial setting by geopolymerization of the alkali metal silicate.

21: 2019/07689. 22: 2019/11/20. 43: 2021/06/14
51: C10B

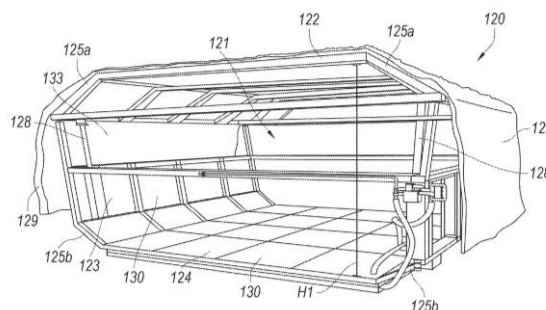
71: SunCoke Technology and Development LLC
72: CRUM, Jason, BALL, Mark Anthony, WEST, Gary Dean, QUANCI, John Francis, CHOI, Chun Wai

33: US 31: 62/510,109 32: 2017-05-23

54: SYSTEM AND METHOD FOR REPAIRING A COKE OVEN

00: -

A system and method for repairing a coke oven having an oven chamber formed from ceramic bricks. A representative system includes a insulated enclosure insertable into the oven chamber and includes removable insulated panels that define an interior area for workers to work in. The insulated enclosure is movable between an expanded configuration and a compact configuration and moving the enclosure to the expanded configuration will decrease the distance between the insulated enclosure and the walls of the oven chamber. Removing the panels exposes the ceramic bricks and allows workers within the interior area to access and the bricks and repair the oven chamber while the oven chamber is still hot. A loading apparatus lifts and inserts the insulated enclosure into the oven chamber. The insulated enclosure can be coupled to additional insulated enclosures to form an elongated interior area.



21: 2019/07757. 22: 22/11/2019. 43: 2021/06/14
51: B21D

71: CROWN PACKAGING TECHNOLOGY, INC.

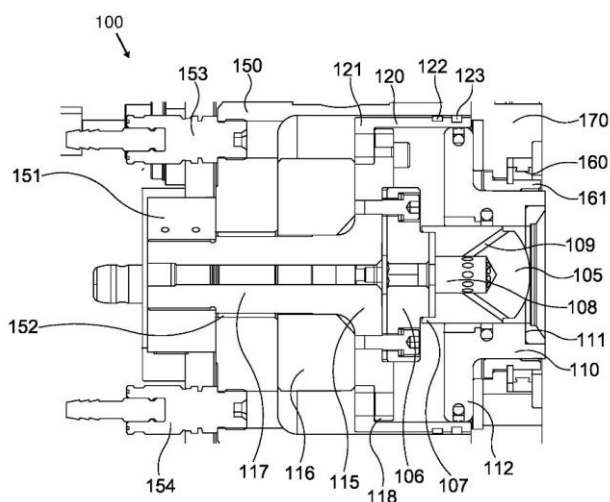
72: RUKAT, Bronislaw

33: GB 31: 1706554.1 32: 2017-04-25

54: CAN BASE FORMING

00: -

An apparatus (100) for forming a base profile on a metal container carried on a punch moving along an axis. The apparatus comprises a die (105) for forming the base profile on the container and a resilient support for holding the die (105) in a resting position substantially along said axis whilst allowing the die (105) to be deflectable perpendicular to said axis and providing a restoring force to return the die (105) to the resting position.



21: 2019/07758. 22: 22/11/2019. 43: 2021/06/14
51: B65D

71: CROWN PACKAGING TECHNOLOGY, INC.

72: HALL, Jason, TACHET, Cedric

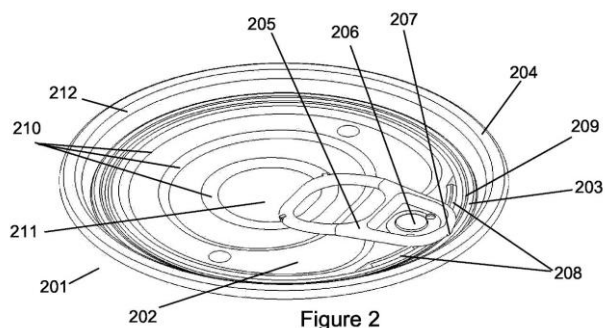
33: GB 31: 1706949.3 32: 2017-05-02

54: EASY OPEN CLOSURE

00: -

A metal closure (201) for seaming onto the end of a container, the closure (201) comprising a centre panel (202) defined by a circumferential score (102, 203), a tab (106, 205) fixed to the panel (202) by a rivet (105, 206) formed in the panel (202), and two spaced apart, elongate raised beads (208) formed in the panel (202). The tab (106, 205) has a heel portion radially inside of the rivet (105, 206) and a nose portion (108, 207) radially outside of the rivet (105, 206) and adjacent to a radially inner edge of the score (102, 203), such that lifting of the heel

portion forces the nose portion (108, 207) into contact with a region of the panel (202) adjacent to the radially inner edge of the circumferential score (102, 203), thereby causing the closure (201) to fracture partially along the score (102, 203). The beads extend with a circumferential component of direction, and each has an end terminating under the tab (106, 205) radially between the rivet (105, 206) and the score (102, 203).



21: 2019/07976. 22: 2019/11/29. 43: 2021/06/14

51: A61K; A61P

71: FUJIFILM Toyama Chemical Co., Ltd.

72: KOBAYASHI, Hiroshi, MATSUMOTO, Yoshihiko

33: JP 31: 2017-109886 32: 2017-06-02

54: AGENT FOR REDUCING AMOUNT OF AMYLOID β PROTEIN

00: -

The present invention addresses the problem of providing a pharmaceutical agent and a method for suppressing the progression of diseases such as Alzheimer-type dementia indicating an increase in the level of amyloid- β protein in the brain. 1-(3-(2-(1-benzothiophen-5-yl)ethoxy)propyl)azetidin-3-ol or a salt thereof has an effect of decreasing the level of amyloid- β protein in the brain parenchyma, and hence is effective as an agent for decreasing the level of amyloid- β protein in the brain. By administering 1-(3-(2-(1-benzothiophen-5-yl)ethoxy)propyl)azetidin-3-ol or a salt thereof, it is possible to prevent or treat diseases in which an increase in the level of amyloid- β protein in the brain occurs, such as Alzheimer-type dementia.

21: 2019/08090. 22: 05/12/2019. 43: 2021/06/22

51: A61K; A61P

71: JIANGSU HENGRUI MEDICINE CO., LTD.

72: ZHANG, Daimei, ZHANG, Tingting, DING, Huan

33: CN 31: 201710536705.9 32: 2017-07-04

33: CN 31: 201711105075.6 32: 2017-11-10

54: PHARMACEUTICAL COMPOSITION AND METHOD FOR PREPARING SAME

00: -

A solid dispersion, a method for preparing same, and a solid preparation comprising the solid dispersion. The solid dispersion contains (R)-4-amino-1-(1-(but-2-ynylacetyl)pyrrolidin-3-yl)-3-(4-(2,6-difluorophenoxy)phenyl)-1,6-dihydro-7H-pyrrolo[2,3-d]pyridazine-7-one or a pharmaceutically acceptable salt thereof, and a carrier material. The carrier material is selected from hydroxypropyl methylcellulose acetate succinate and hydroxypropyl methylcellulose phthalate.

21: 2019/08091. 22: 05/12/2019. 43: 2021/06/22

51: A61K; C07D; A61P

71: JIANGSU HENGRUI MEDICINE CO., LTD., SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.

72: LIU, Dong, LU, Biao, QIAN, Wenjian, DONG, Huaide, LIU, Suxing, ZHANG, Rumin, HE, Feng, TAO, Weikang

33: CN 31: 201710546877.4 32: 2017-07-06

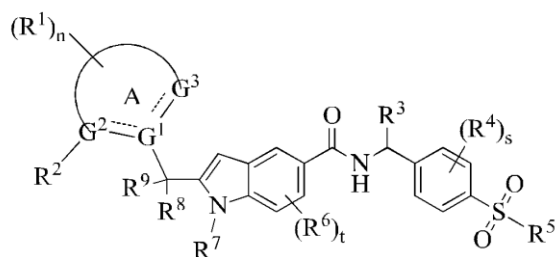
33: CN 31: 201710755196.9 32: 2017-08-29

33: CN 31: 201710815286.2 32: 2017-09-12

54: INDOLE-FORMAMIDE DERIVATIVE, PREPARATION METHOD THEREFOR AND USE THEREOF IN MEDICINE

00: -

Disclosed are an indole-formamide derivative, a preparation method therefor and the use thereof in medicine. In particular, disclosed are an indole-formamide derivative as shown in general formula (I), a preparation method therefor, a pharmaceutical composition containing the derivative, and the use thereof as an ROR agonist and the use thereof for preventing and/or treating a tumour or cancer.



(I)

21: 2019/08402. 22: 2019/12/17. 43: 2021/06/23

51: B82Y; D21H

71: Granbio Intellectual Property Holdings, LLC

72: NELSON, Kimberly, RETSINA, Theodora

33: US 31: 62/523,293 32: 2017-06-22

54: NANOLIGNOCELLULOSE COMPOSITIONS AND PROCESSES TO PRODUCE THESE COMPOSITIONS

00: -

Some variations provide a new nanolignocellulose composition comprising, on a bone-dry, ash-free, and acetyl-free basis, from 35 wt% to 80 wt% cellulose nanofibrils, cellulose microfibrils, or a combination thereof, from 15 wt% to 45 wt% lignin, and from 5 wt% to 20 wt% hemicelluloses. The hemicelluloses may contain xylan or mannan as the major component. Novel properties arise from the hemicellulose content that is intermediate between high hemicellulose content of raw biomass and low hemicellulose content of conventional nanocellulose. The nanolignocellulose composition is hydrophobic due to the presence of lignin. Processes for making and using the nanolignocellulose compositions are also described.



21: 2019/08461. 22: 2019/12/19. 43: 2021/06/29

51: E05B; E05G; G07C

71: BEA Technologies (Pty) Ltd

72: BEYLEFELD, Kallie, VERRIPS, Aart

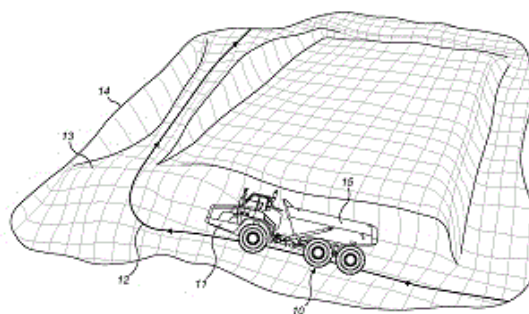
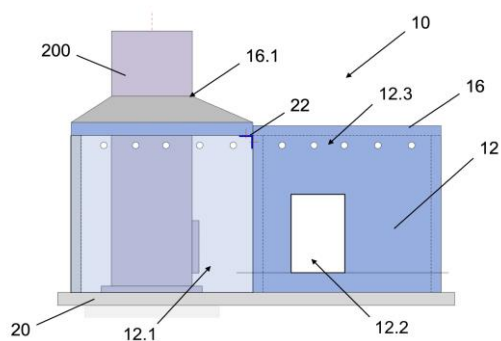
33: ZA 31: 2018/06554 32: 2018-10-03

54: EQUIPMENT SECURITY

00: -

The invention provides an enclosure kit which includes a plurality of wall panels constructed from steel clad reinforced concrete. The plurality of wall panels is connectable to each other to define an

enclosed volume with at least one wall panel having an entrance opening. The enclosure kit further includes a roof section that is connectable to an upper end of the plurality of wall panels and a door, constructed from steel clad reinforced concrete, that is shaped and dimensioned to selectively close the entrance opening. The enclosure kit also includes electronic locking means that is capable of locking the door in a closed configuration to prohibit opening of the door. The invention further provides a method of constructing an enclosure from the enclosure kit.



21: 2019/08520. 22: 2019/12/20. 43: 2021/06/24
51: A61B

71: DU PLESSIS, Andre Douglas, VAN DEN BERG, Jan Louis

72: DU PLESSIS, Andre Douglas, VAN DEN BERG, Jan Louis

33: ZA 31: 2018/04240 32: 2018-12-25

54: A Medical Device

00: -

The invention relates to a medical device for use in knee replacement surgery. The device 10 includes a body 12, a first tensioning unit 14 and a second tensioning unit 16. Each tensioning unit 12, 16 includes a pair of blades or pads which define oppositely outwardly facing bone engaging surfaces. The device 10 includes a tensioning unit whereby the pads are displaceable outwardly relative to one another into abutment with opposed surfaces of a patient's tibia and femur. The tensioning unit is configured to limit the load applied to the tibia and femur and hence to ligaments of the knee joint to a predetermined load.

21: 2019/08505. 22: 19/12/2019. 43: 2021/06/22

51: G01C; B60W; G05D

71: CATERPILLAR S.A.R.L

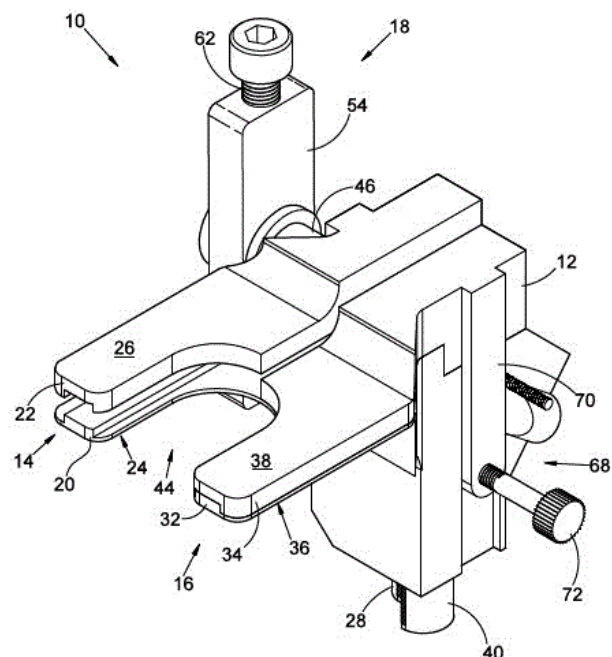
72: THOMPSON, STEPHEN

33: GB 31: 1709135.6 32: 2017-06-08

54: IMPROVEMENTS IN THE STABILITY OF WORK MACHINES

00: -

The present disclosure relates to improvements in the stability of work machines (11). A method for predicting a risk of instability for one or more work machine(s) (11) moving along a route (12) along terrain (13) of a worksite (14) is provided. Ground condition data indicative of the ground condition of the terrain (13) along the route (12) is obtained. Surface topography data indicative of the surface topography of the terrain (13) along the route (12) is obtained. Route data indicative of the route (12) along the terrain (13) is generated. The ground condition data, the surface topography data and the route data are processed to generate risk data indicative of a risk of instability along the route (12).



21: 2019/08533. 22: 2012/2019. 43: 2021/06/23
51: A24D

71: HUBEI CHINA TOBACCO INDUSTRY CO., LTD.

72: LIU, Huachen, CHEN, Yikun, KE, Weichang, LUO, Chenghao, LIU, Bing

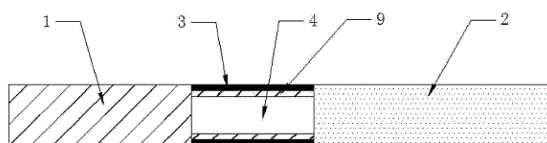
33: CN 31: 201710381745.0 32: 2017-05-26

54: SMOKELESS CIGARETTE HAVING DECREASED VAPOR TEMPERATURE AND PREVENTING HEAT-CAUSED COLLAPSE OF CIGARETTE HOLDER

00: -

A smokeless cigarette having a decreased vapor temperature and preventing the heat-caused collapse of a cigarette holder comprises a filter tip, a heat-resistant hollow section and a tobacco section sequentially connected, wherein the heat-resistant hollow section consists of a heat-resistant hollow section cover and a heat-resistant hollow section hollow layer. The heat-resistant hollow section is made by rolling a high-temperature resistant material into a hollow tubular structure; the high-temperature resistant material forms the heat-resistant hollow section cover. The heat-resistant hollow section hollow layer is a cavity structure formed and surrounded by the heat-resistant hollow section cover. An inner layer of the heat-resistant hollow section cover is coated with a layer of phase-change heat-absorbing material, or the heat-resistant hollow section hollow layer is filled with a phase-change

heat-absorbing material. The smokeless cigarette of the present invention can achieve a better fit with a peripheral heater, is adapted to an inner core heater, and will not result in the heat-caused collapse of a cigarette holder contacting tobacco shreds due to heat conducted by a cover when the periphery is heated.



21: 2019/08549. 22: 2019/12/20. 43: 2021/06/14
51: A61P; C07K

71: Eli Lilly and Company, Zymeworks Inc.

72: KALOS, Michael Dewain, LI, Yiwen, LUDWIG, Dale Lincoln, PLOWMAN, Gregory D., SHEN, Yang, D'ANGELO, Igor Edmondo Paolo

33: US 31: 62/530,436 32: 2017-07-10

54: CHECKPOINT INHIBITOR BISPECIFIC ANTIBODIES

00: -

The present invention relates to antibodies that are heterodimeric and bind human PD-L1 and human PD-1, and may be useful for treating cancer alone and in combination with chemotherapy and other cancer therapeutics.

21: 2019/08595. 22: 2019/12/23. 43: 2021/06/14
51: A23K; A61K

71: DSM IP Assets B.V.

72: BRUNNER, Dominik, CLASADONTE, Laure, HEINRICH, Emmanuel, SCHUEPFER, Roland

33: EP(NL) 31: 17180187.1 32: 2017-07-07

54: COMPRESSED TABLETS

00: -

The present invention relates to compressed tablets comprising 3-nitrooxypropanol or derivatives thereof and a gluten as well as to the production of such tablets.

21: 2020/00024. 22: 02/01/2020. 43: 2021/06/02
51: H04W

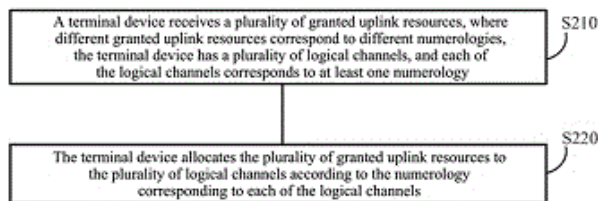
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: METHOD AND DEVICE FOR TRANSMITTING DATA

00: -

Embodiments of the present application provide a method and a device for transmitting data, which can implement allocation of a plurality of granted uplink resources to a plurality of logical channels according to a numerology corresponding to a logical channel. The method includes: receiving, by a terminal device, a plurality of granted uplink resources, where different granted uplink resources correspond to different numerologies, the terminal device has a plurality of logical channels, and each of the logical channels corresponds to at least one numerology; and allocating, by the terminal device, the plurality of granted uplink resources to the plurality of logical channels according to the numerology corresponding to each of the logical channels.



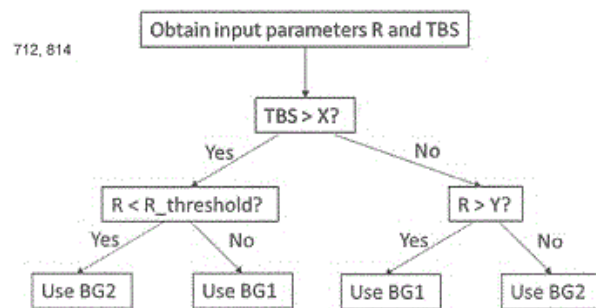
21: 2020/00026. 22: 02/01/2020. 43: 2021/06/02
 51: H03M; H04L
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: SANDBERG, SARA, ANDERSSON, MATTIAS, BLANKENSHIP, YUFEI, SHIRAZINIA, AMIRPASHA
 33: US 31: 62/549,897 32: 2017-08-24

54: BASE GRAPH SELECTION FOR 3GPP NEW RADIO

00: -

According to some embodiments, a method for use in a wireless transmitter of encoding a transport block comprises, upon determining a code rate for transmitting a transport block is less than or equal to $R_{\text{threshold}}$ ($R_{\text{threshold}}$ is between $1/5$ and $1/3$), selecting new radio (NR) low-density parity-check (LDPC) base graph 2 for encoding the transport block. Otherwise, the method comprises selecting NR LDPC base graph 1 for encoding the transport block, unless a transport block size (TBS) of the transport block is less than or equal to a size threshold (X) and a code rate for transmitting the transport block is less than or equal to $2/3$, in which

case the method may comprise selecting base graph 2. The method further comprises encoding the transport block using the selected base graph and transmitting the encoded transport block to a wireless receiver.

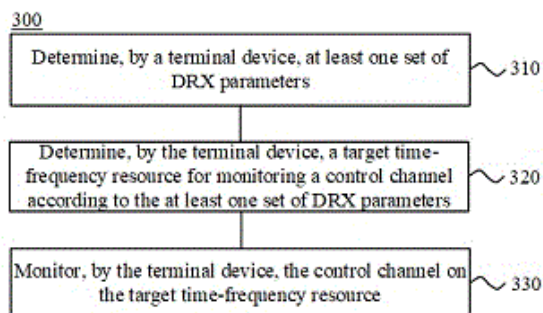


21: 2020/00029. 22: 02/01/2020. 43: 2021/06/02
 51: H04W
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: ZHANG, ZHI

54: DISCONTINUOUS RECEPTION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

00: -

Disclosed in the present application are a discontinuous reception method, a terminal device and a network device. The method comprises: a terminal device determining at least one set of DRX parameters; the terminal device determining, according to the at least one set of DRX parameters, a target time-frequency resource for monitoring a control channel; and the terminal device monitoring the control channel on the target time-frequency resource. In this way, the terminal device determines, on the basis of multiple sets of DRX parameters, a target time-frequency resource for monitoring the control channel, so that the terminal device, when transmitting data on the basis of different basic parameter sets, can also simultaneously satisfy low power consumption requirements and signal monitoring requirements.



21: 2020/00030. 22: 02/01/2020. 43: 2021/06/02
 51: A61K; C07D
 71: INTAS PHARMACEUTICALS LTD.
 72: PATEL, HIMANSHUKUMAR DASHARATHLAL,
 DUBE, VINOD PURUSHOTTAM, NAIDU,
 VENKATARAMANA, BORUDE, SUNIL SHANTWAN
 33: IN 31: 201721025857 32: 2017-07-20

54: NON-PULSATILE PROLONGED-RELEASE BETAHISTINE ORAL SOLID COMPOSITIONS

00: -

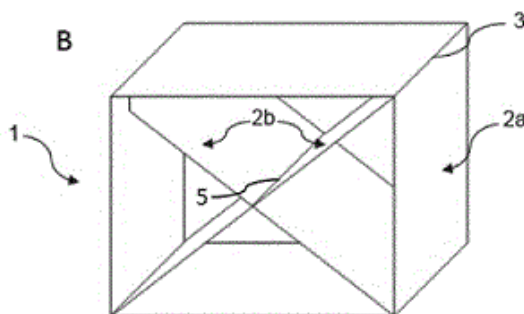
The present invention relates to an oral solid non-pulsatile 24 hours prolonged-release composition comprising an amount of betahistine, or of a pharmaceutically acceptable salt thereof, equivalent to 48 mg of betahistine dihydrochloride, together with one or more pharmaceutically acceptable excipients or carriers, wherein the composition exhibits a dissolution profile according to which: up to 30% by weight of betahistine is dissolved in 1 hour; from 35% to 45% by weight of betahistine is dissolved in 2 hours; from 46% to 60% by weight of betahistine is dissolved in 4 hours; from 61% to 80% by weight of betahistine is dissolved in 8 hours; from 81% to 97% by weight of betahistine is dissolved in 16 hours; and from 98% to 100% by weight of betahistine is dissolved in 24 hours. It also relates to its use in therapy, particularly in the treatment of a vestibular disease or condition, more particularly in the treatment of Ménière's disease.

21: 2020/00033. 22: 02/01/2020. 43: 2021/06/02
 51: A01M
 71: DOMOBIOS
 72: MAILLEUX, ANNE-CATHERINE, CLOTUCHE,
 GWENDOLINE, SOLHEID, MANHATTAN, MANGHI,
 ALICE, PEETERS, CÉLINE
 33: EP 31: 17180310.9 32: 2017-07-07
 33: CA 31: 2972725 32: 2017-07-07

54: FLYING INSECT TRAP

00: -

The present invention relates to a flying insect trap (1) having a cuboid shape comprising at least two intersecting interior walls (2b) forming a line of intersection (5), each interior wall being disposed between two opposite edges (3) and forming at least one acute angle with an exterior wall (2a).

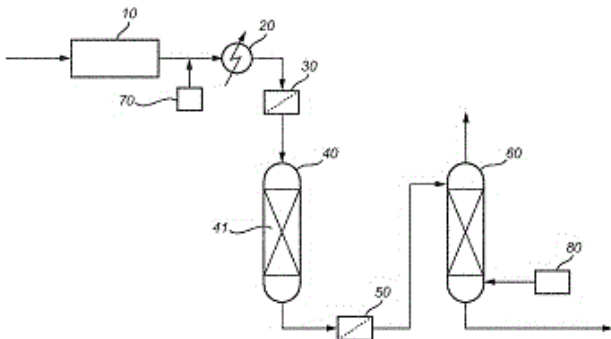


21: 2020/00034. 22: 02/01/2020. 43: 2021/06/02
 51: A23L; A23D; C11B
 71: ALFA LAVAL CORPORATE AB
 72: SARUP, BENT
 33: EP 31: 17179283.1 32: 2017-07-03

54: REDUCTION OF THE CONTENT OF GLYCIDYL ESTERS IN EDIBLE OILS

00: -

A process of treating edible oil. An edible oil is brought in contact with porous bodies comprising an epoxide conversion catalyst. The porous bodies have a size of larger than 0.5 mm. A system for treatment of edible oil. The system comprises a first treatment unit and a reactor vessel arranged to receive edible oil originating from the first treatment unit. The reaction vessel comprises porous bodies comprising an epoxide conversion catalyst, the porous bodies having a size of larger than 0.5 mm. Use of porous bodies comprising an epoxide conversion catalyst, the porous bodies having a size of larger than 0.5 mm, for treatment of edible oil.



21: 2020/00035. 22: 02/01/2020. 43: 2021/06/02

51: H04B; H04L

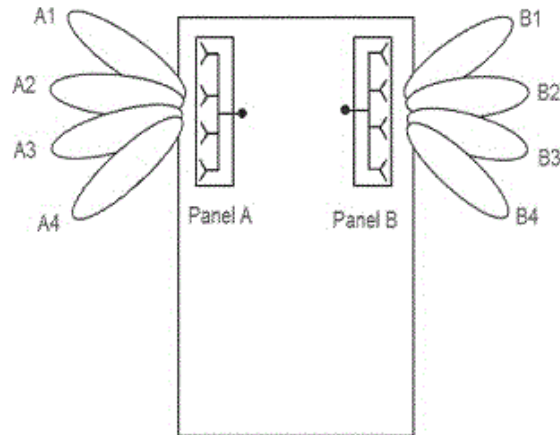
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: FAXÉR, SEBASTIAN, NILSSON, ANDREAS, HARRISON, ROBERT MARK, PETERSSON, SVEN
33: US 31: 62/567,156 32: 2017-10-02

54: EFFICIENT SRS RESOURCE INDICATION METHODS

00: -

A method of identifying reference signal resources to be used in a transmission by a wireless device is disclosed. The method comprises a wireless device receiving signaling configuring the wireless device with a plurality of reference signal resource groups, each group comprising a plurality of reference signal resources. The wireless device subsequently receives an indication, in a control channel, of a selection of reference signal resources to be used. Each of the plurality of reference signal resources to be used is selected from a different one of the plurality of reference signal resource groups such that reference signal resources belonging to the same reference signal resource group are not selected for simultaneous use. A reference signal is then transmitted to a network node in the network using the indicated selection of reference signal resources.



21: 2020/00039. 22: 03/01/2020. 43: 2021/06/02

51: H04W

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

33: CN 31: PCT/CN2018/078330 32: 2018-03-07

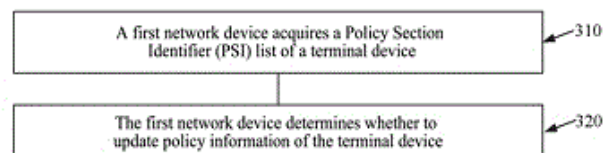
33: CN 31: PCT/CN2018/079203 32: 2018-03-15

33: CN 31: PCT/CN2018/076013 32: 2018-02-09

54: WIRELESS COMMUNICATION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE

00: -

Provided are a wireless communication method, a network device, and a terminal device. The method comprises: after a first network device obtains a policy set identifier (PSI) parameter of a terminal device, the first network device determines whether to update policy information of the terminal device, wherein the PSI parameter is used for identifying some of the policy information used for the terminal device under a subscriber. In embodiments of the present invention, after obtaining the PSI parameter of the terminal device, the first network device directly determines whether to update the policy information of the terminal device, thereby updating the PSI parameter timely/correctly, and eliminating safety risks.



21: 2020/00040. 22: 03/01/2020. 43: 2021/06/02
51: H04W

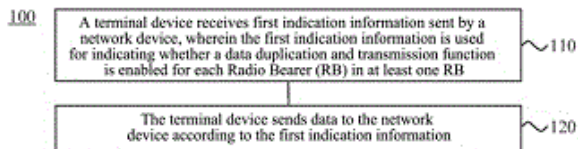
71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE

00: -

Disclosed in embodiments of the present application are a data transmission method, a terminal device, and a network device. The method comprises: a terminal device receive first indication information sent by a network device, the first indication information being used for indicating whether each RB in at least one radio bearer (RB) enables replicated-data transmission function; and the terminal device sends data to the network device according to the first indication information. The method, the terminal device and the network device in the embodiments of the present application help to improve the flexibility of data transmission.



21: 2020/00041. 22: 03/01/2020. 43: 2021/06/03
51: H04W

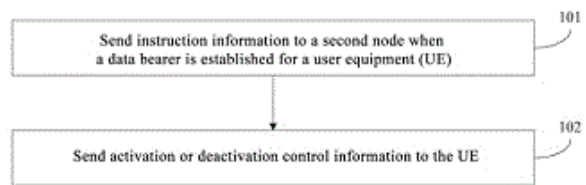
71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: CONTROL METHOD, NODE, AND COMPUTER STORAGE MEDIUM

00: -

Disclosed in the present invention are a control method, a node, and a computer storage medium. The method comprises: sending instruction information to a second node when a data bearer for a User Equipment (UE) is established, wherein the instruction information is used for turning on or off the control on a data replication function of the UE by the second node.



21: 2020/00042. 22: 03/01/2020. 43: 2021/06/02
51: H04L

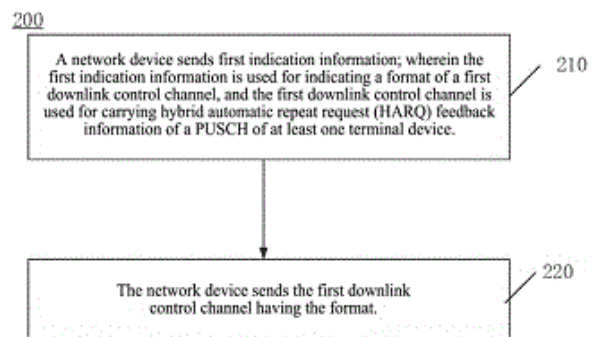
71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: WIRELESS COMMUNICATION METHOD AND DEVICE

00: -

Provided are a wireless communication method and device capable of feeding back and acquiring a receiving situation of a PUSCH in different scenarios and according to requirements. The method comprises: a network device sending first indication information, wherein the first indication information is used for indicating the format of a first downlink control channel, and the first downlink control channel is used for carrying hybrid automatic repeat request (HARQ) feedback information about a physical uplink shared channel (PUSCH) of at least one terminal device; and the network device sending the first downlink control channel having the format.



21: 2020/00043. 22: 03/01/2020. 43: 2021/06/02
51: H04W

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

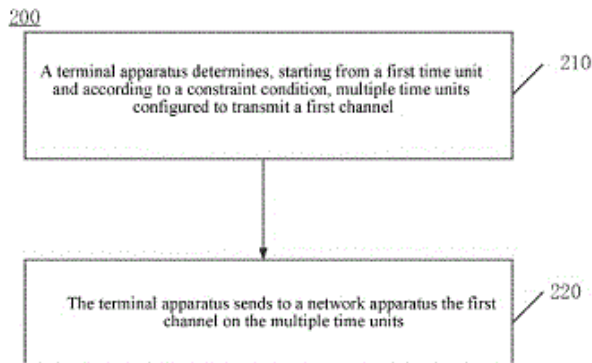
72: LIN, YANAN

54: WIRELESS COMMUNICATION METHOD AND APPARATUS

00: -

Provided in embodiments of the present application are a wireless communication method and

apparatus, configured to improve flexibility of channel transmission. The method comprises: a terminal apparatus determining, starting from a first time unit and according to a constraint condition, multiple time units configured to transmit a first channel; and the terminal apparatus sending to a network apparatus the first channel on the multiple time units.



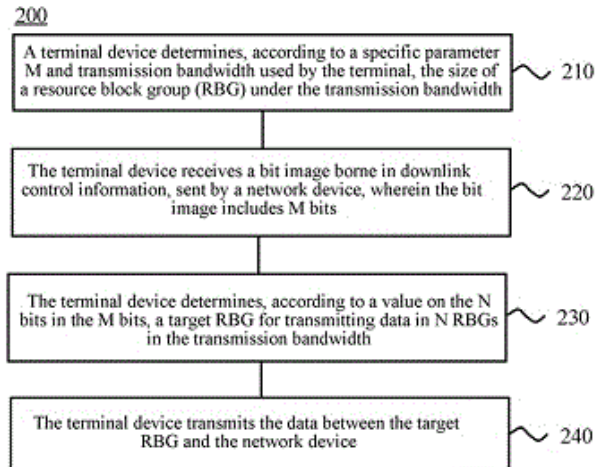
21: 2020/00044. 22: 03/01/2020. 43: 2021/06/02
51: H04W

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.
72: TANG, HAI

54: DATA TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

00: -

Disclosed are a data transmission method, a terminal device and a network device. The method comprises: a terminal device determining, according to a specific parameter M and used transmission bandwidth, the size of a resource block group (RBG) under the transmission bandwidth, wherein M is a positive integer; receiving a bit image borne in downlink control information, sent by a network device, wherein the bit image includes M bits; determining, according to a value on the N bits in the M bits, a target RBG for transmitting data in N RBGs in the transmission bandwidth, wherein N is determined according to the transmission bandwidth and the size of the RBG, and N is a positive integer less than or equal to M; and transmitting the data between the target RBG and the network device. Therefore, using bit images of the same size to indicate the RBG when different transmission bandwidths are used can reduce blind detection complexity of the terminal device.



21: 2020/00047. 22: 03/01/2020. 43: 2021/06/02

51: F04B; E21B

71: RSM IMAGINEERING AS

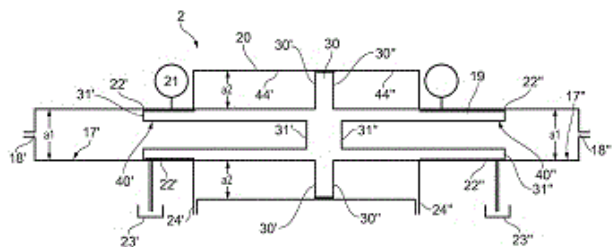
72: MOLLATT, TORBJØRN

33: NO 31: 20171100 32: 2017-07-04

54: A DUAL-ACTING PRESSURE BOOSTING LIQUID PARTITION DEVICE, SYSTEM, FLEET AND USE

00: -

The invention relates to a dual acting pressure boosting liquid partition device (2), a system comprising the dual acting pressure boosting liquid partition device (2), a fleet comprising the system, and use of the device, system and fleet. The dual acting pressure boosting liquid partition device (2) for a closed hydraulic loop volume, the dual acting pressure boosting liquid partition device (2) being capable of feeding and retracting a large amount of hydraulic fluid under high pressures to and from at least a first pressure transfer device (1') and second pressure transfer device (1"), the pressure transfer devices (1', 1") pumping fluids with particles at high volumes and pressures above 500 bars, where the dual acting pressure boosting liquid partition device (2) is controllable by a variable flow supply through at least a first drive fluid port (24') and a second drive fluid port (24"), wherein the dual acting pressure boosting liquid partition device (2) comprises: - a hollow cylinder housing (20) having a longitudinal extension, wherein the cylinder housing (20) comprises at least a first part and a second part having a first transverse cross sectional area (a1) and a third part having a second transverse cross sectional area (a2) of different size than the first transverse cross sectional area (a1), - and a rod (19).



21: 2020/00048. 22: 03/01/2020. 43: 2021/06/02

51: F04B; E21B

71: RSM IMAGINEERING AS

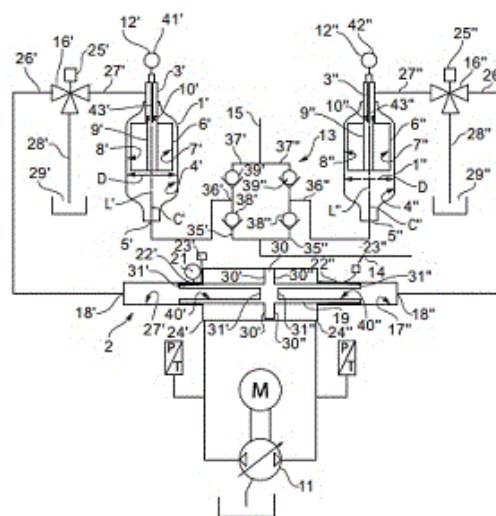
72: MOLLATT, TORBJØRN

33: NO 31: 20171101 32: 2017-07-04

54: METHOD, SYSTEM AND USE, OF CONTROLLING WORKING RANGE OF A PUMP BELLOWS

00: -

Method, and associated system, computer program and use, of controlling working range of a pump bellows, including maximum limitations such as maximum retracting position and maximum extension position of the bellows, the method comprising the steps of: a) reading at least a first position of a bellows (6', 6'') in a closed hydraulic loop volume using at least one position sensor (12', 12''), g) transmitting a first position signal representing the first position to a control system, h) wherein the control system, based on the at least first position signal: c1) determines the position of the bellows (6', 6'') represented by the at least first position signal, c2) compares the position of the bellows (6', 6'') with a predetermined bellows position operating range, and c3) if the position is outside the predetermined bellows position operating range, instructs an oil management system valve (16', 16'') allowing a dual acting pressure boosting liquid partition device (2) to recalibrate the hydraulic fluid volume in the closed hydraulic loop volume to re-establish a hydraulic fluid volume that causes the at least first position to return to a position within the predetermined bellows position operating range.



21: 2020/00066. 22: 06/01/2020. 43: 2021/06/03

51: C07D; A61K; A61P

71: BUGWORKS RESEARCH, INC.

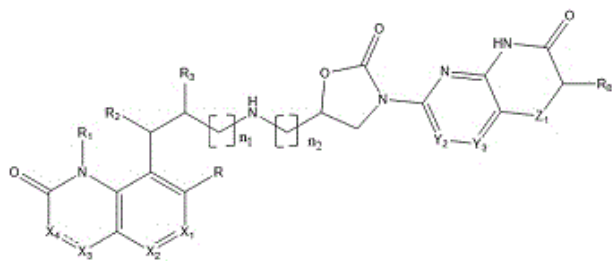
72: PEER MOHAMED, SHAHUL HAMEED, BHARATHAM, NAGAKUMAR, KATAGIHALLIMATH, NAINESH, SHARMA, SREEVALLI, NANDISHAIAH, RADHA, RAMACHANDRAN, VASANTHI, VENKATARAMAN, BALASUBRAMANIAN

33: IN 31: 201741020214 32: 2017-06-08

54: HETEROCYCLIC COMPOUNDS USEFUL AS ANTI-BACTERIAL AGENTS AND METHOD FOR PRODUCTION THEREOF

00: -

The present disclosure relates to compounds of Formula I, or their stereoisomers, pharmaceutically acceptable salts, complexes, hydrates, solvates, tautomers, polymorphs, racemic mixtures, optically active forms and pharmaceutically active derivatives thereof, and pharmaceutical compositions containing them as the active ingredient which can be used as medicaments. The aforementioned substances can also be used in the manufacture of medicaments for treatment, prevention or suppression of diseases, and conditions mediated by microbes. The present disclosure also relates to the synthesis and characterization of aforementioned substances.



Formula I

21: 2020/00067. 22: 06/01/2020. 43: 2021/06/03

51: A45D

71: L'OREAL

72: ROBINAULT, JEAN-LUC, SAMAIN, HENRI

33: FR 31: 1756117 32: 2017-06-30

54: HAIR TREATMENT SYSTEM

00: -

System (1) for treating a head of hair, comprising: - a pipe (28) for circulating a liquid, - a device (24) for feeding the pipe (28) with water, - at least one source (21) of product, the product (P1) comprising one or more surfactants, - a device (29) for injecting product into the pipe (28) to form a treatment solution comprising one or more surfactants in a content ranging from 0.35% to 1.5% by weight of surfactant(s) relative to the total weight of the treatment solution, - a dispensing device (11) for delivering the treatment solution onto the head of hair (B) with a flow rate of between 0.5 and 5 L/min, better still between 0.8 and 3 L/min.

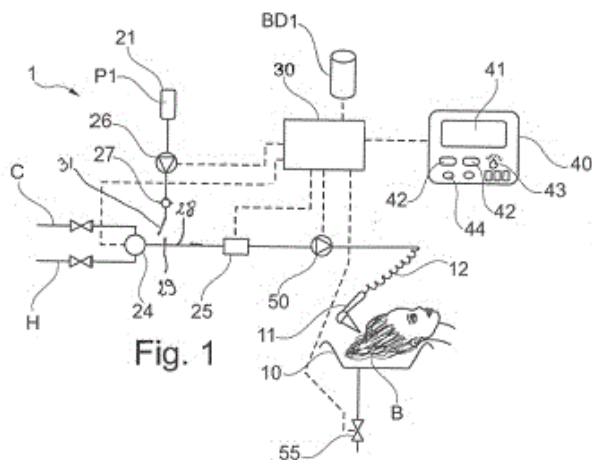


Fig. 1

21: 2020/00068. 22: 06/01/2020. 43: 2021/06/02

51: C11D

71: UNILEVER PLC

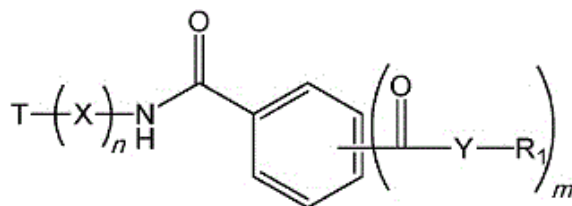
72: BATCHELOR, STEPHEN NORMAN, BREFFA, CATHERINE, DIEDERICH, JAN, MUTCH, KEVIN JAMES, ROMANSKI, STEFFEN, SCHAEFER, CARSTEN

33: EP 31: 17180337.2 32: 2017-07-07

54: LAUNDRY CLEANING COMPOSITION

00: -

The invention provides a laundry cleaning composition comprising: - (i) from 0.2 to 20 wt.% of an alkoxyated dispersant of the following structure (F1): wherein: X is selected from: ethoxy; and mixtures of ethoxy and propoxy groups, wherein the number of ethoxy groups is greater than the number of propoxy groups, and wherein n is from 6 to 70; m is selected from: 2 and 3; R_1 is selected from: branched and linear C8 to C20 alkyl chains, uncharged aryl groups; and, uncharged alkyl-aryl groups, wherein the alkyl group of the alkyl-aryl is a saturated linear or branched C1 to C3; wherein the alkyl group of the alkyl-aryl is a saturated linear or branched C1 to C3; T is selected from: H; CH₃; SO₃⁻; CH₂COO⁻; PO₃²⁻; C₂H₅; n-propyl, i-propyl; n-butyl; t-butyl; and, sulfosuccinate; Y is selected from O and NH; (ii) from 0 to 50 wt.% surfactant, other than the alkoxyated dispersant; and (iii) an active ingredient selected from one or more of the following: from 0.001 to 3 wt.% perfume; from 0.0001 to 0.5 wt.% of fluorescent agent; and, from 0.0001 wt.% to 0.1 wt.% of an enzyme; and to a domestic method of treating a textile comprising treatment of the textile with an aqueous liquor comprising said alkoxyated dispersant.



21: 2020/00069. 22: 06/01/2020. 43: 2021/06/02

51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

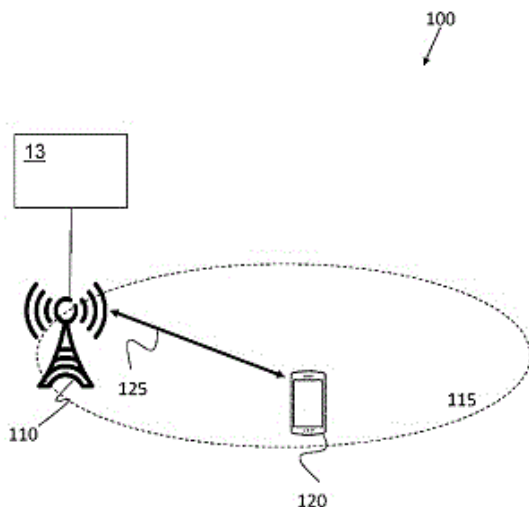
72: PAKNIAT, PARISA, DA SILVA, ICARO L. J

33: US 31: 62/544,155 32: 2017-08-11

54: METHOD AND APPARATUS FOR HANDLING MOBILITY MEASUREMENTS FOR A USER EQUIPMENT

00: -

The embodiments herein relate to a method, performed by a network node (110), for configuring mobility measurements to be performed by a User Equipment, UE, (120). The network node (110) sends a configuration message to the UE (120). The configuration message comprises a plurality of measurement offsets associated to a single measurement object. The measurement offsets indicate offset values for triggering a measurement report. Each of the plurality of measurement report triggering offsets being related to a respective measurement. The embodiments herein further relate to a method, performed by the UE (120), for performing mobility measurements. The UE (120) receives a plurality of measurement offsets associated to a single measurement object, wherein the measurement offsets indicates offset values for triggering a measurement report, and wherein each of the plurality of measurement offsets is related to a respective measurement. The UE (120) further performs a mobility measurement process taking the measurement offset into account for triggering a measurement report transmission.



21: 2020/00088. 22: 2020/01/07. 43: 2021/06/23

51: H04W

71: Huawei Technologies Co., Ltd.

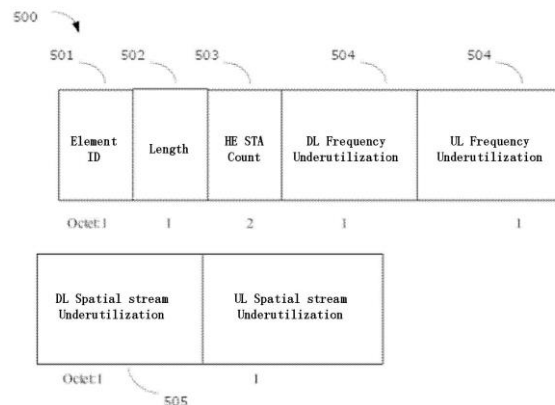
72: AU, Kwok Shum, GAN, Ming, YANG, Xun, ABOL-MAGD, Osama

33: PCT/CN 31: 2017/089548 32: 2017-06-22

54: TRANSMISSION OF BSS LOAD ELEMENT IN WIRELESS LOCAL AREA NETWORK SYSTEM

00: -

A method and system for providing utilization information for a basic service set (BSS) in a wireless local area network system, performed by an access point, including generating and transmitting a BSS load element including a capable STA count field, a plurality of frequency and/or spatial stream underutilization fields, and a plurality of delta observable secondary channel utilization fields. The capable STA count field indicates a total number of STAs currently associated with the BSS. Each of the frequency and/or spatial stream underutilization fields indicates underutilized frequency and/or spatial stream domain resources on Orthogonal Frequency Division Multiple Access resource units for each channel, and each of the frequency and/or spatial stream underutilization fields is calculated based on RU size. Each of the delta observable secondary channel utilization fields indicates a utilization for a subband within a secondary channel calculated based on observable utilization on the corresponding secondary channel.



21: 2020/00091. 22: 07/01/2020. 43: 2021/06/02

51: H04W

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

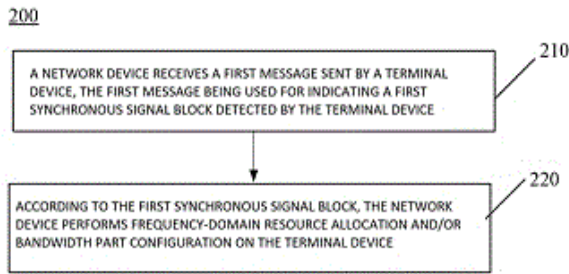
72: ZHANG, ZHI

54: WIRELESS COMMUNICATION METHOD AND DEVICE

00: -

Provided is a wireless communication method and device. Frequency-domain resource allocation and/or bandwidth part configuration is flexibly performed on a terminal device in conjunction with a synchronous signal block, and the performance of a communication system can be raised. The method

comprises: a network device receiving a first message sent by a terminal device, the first message being used for indicating a first synchronous signal block detected by the terminal device; and according to the first synchronous signal block, the network device performing frequency-domain resource allocation and/or bandwidth part configuration on the terminal device.



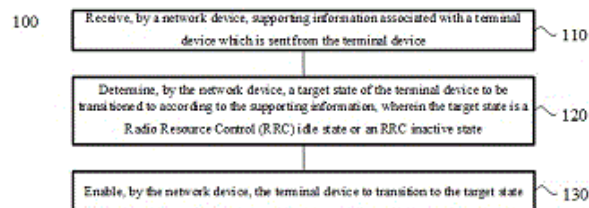
21: 2020/00093. 22: 07/01/2020. 43: 2021/06/02
 51: G06F
 71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY
 72: WU, CAIFANG, JIANG, XIUMING, WANG, BO, FANG, XIAOJIE, ZHANG, ERCHAO
 33: CN 31: 201811398934X 32: 2018-11-22
54: FRACABILITY EVALUATION METHOD FOR COAL RESERVOIR
 00: -

The present invention discloses a fracability evaluation method for a coal reservoir, including the following steps: Step 1: calculating the brittleness index BI of a coal reservoir to be evaluated; Step 2: calculating the fracture toughness of the coal reservoir under a confining pressure; Step 3: calculating the thickness E^h of the coal reservoir to be evaluated; Step 4: calculating the elastic modulus difference E^k between the coal reservoir and the surrounding rock; Step 5: calculating the net pressure coefficient σ_n of the coal reservoir to be evaluated; Step 6: calculating the moisture content M^{ad} of coal-rock; Step 7: calculating the fracability evaluation score F^{rac} of the coal reservoir; Step 8: rating the fracability of the coal reservoir. The main advantages of the present invention are that, the adopted parameters are easy to obtain, the difficulty in implementing fracability evaluation on a coal reservoir is low, various factors that influence fracturing of a coal reservoir are comprehensively considered, and fracability can be accurately evaluated. It provides important instructions for later

development of coalbed methane, effectively avoids construction on an invalid well location, and saves the development cost of coalbed methane.

21: 2020/00114. 22: 08/01/2020. 43: 2021/06/14
 51: H04W
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: LIU, JIANHUA
54: TRANSITION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE
 00: -

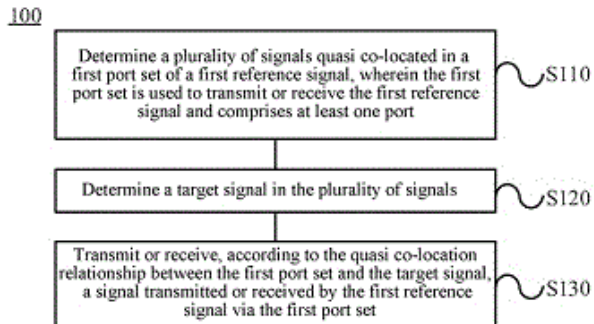
Disclosed in embodiments of the present application are a transition method, a network device, and a terminal device. The method comprises: a network device receives auxiliary information of a terminal device sent by the terminal device; the network device determines, according to the auxiliary information, a target state to which the terminal device transits, the target state being a radio resource control (RRC) idle state or an RRC deactivated state; and the network device transits the terminal device to the target state. The method, the network device and the terminal device in the embodiments of the present application help to improve system performance.



21: 2020/00116. 22: 08/01/2020. 43: 2021/06/14
 51: H04L
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: CHEN, WENHONG
54: SIGNAL PROCESSING METHOD AND APPARATUS
 00: -

An embodiment of the present application relates to a signal processing method and apparatus. The method comprises: determining a plurality of signals quasi co-located in a first port set of a first reference signal, wherein the first port set is used to transmit or receive the first reference signal and comprises at least one port; determining a target signal in the

plurality of signals; and transmitting or receiving, according to the quasi co-location relationship between the first port set and the target signal, a signal transmitted or received by the first reference signal via the first port set. The signal processing method and apparatus of the embodiment of the present application can improve channel estimation performance of a reference signal and determine the optimal transmission beam for the reference signal.

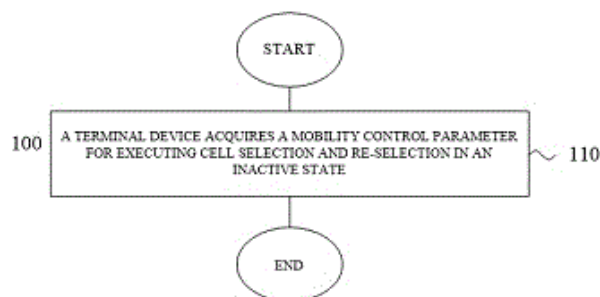


21: 2020/00117. 22: 08/01/2020. 43: 2021/06/14
51: H04W
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
72: TANG, HAI

54: RADIO COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

00: -

Disclosed are a radio communication method, a terminal device and a network device. The method comprises: a terminal device acquiring a mobility control parameter for executing cell selection and re-selection in an inactive state. The method, the terminal device and the network device of the embodiments of the present application facilitate controlling the mobility of a terminal device in an inactive state.



21: 2020/00119. 22: 08/01/2020. 43: 2021/06/14
51: H04W

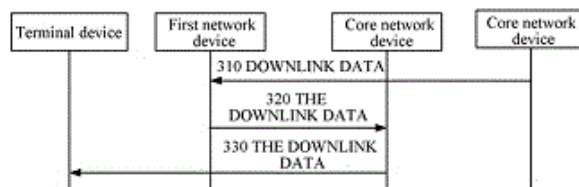
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: YANG, NING, LIU, JIANHUA

54: DATA TRANSMISSION METHOD AND NETWORK DEVICE

00: -

Provided are a method for transmitting data and a network device, which are applied to a terminal device in an inactive state, the inactive state referring to that both the terminal device and a first network device retain context information of the terminal device and that the communication connection of the terminal device between the first network device and a core network device is maintained. The method comprises: the first network device sending downlink data for the terminal device to the terminal device by means of a second network device, the first network device being different from the second network device. With the method of the embodiments of the present invention, the downlink data is sent by means of the second network device, which may effectively improve the success rate of data transmission and improve the user experience.



21: 2020/00120. 22: 08/01/2020. 43: 2021/06/03
51: H04W

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

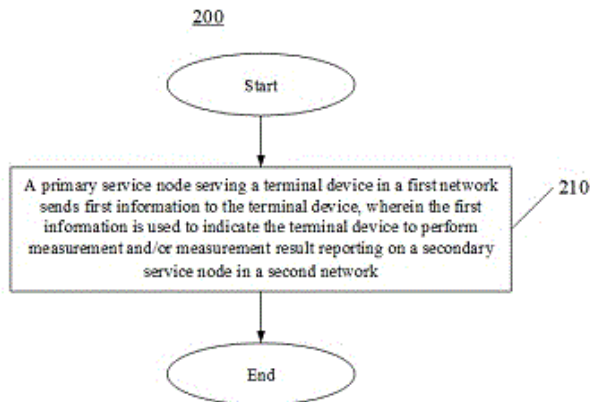
72: YANG, NING, LIU, JIANHUA

54: WIRELESS COMMUNICATION METHOD AND DEVICE

00: -

Provided are a wireless communication method and device, enabling a terminal device to measure and/or report a measurement result about a secondary serving node in a network according to an instruction of a primary serving node, so that the primary serving node can configure an appropriate secondary serving node for the terminal device. The method comprises: a primary serving node, which

serves a terminal device in a first network, sending first information to the terminal device, wherein the first information is used for instructing the terminal device to measure and/or report a measurement result about a secondary serving node in a second network.



21: 2020/00121. 22: 08/01/2020. 43: 2021/06/03

51: H04W

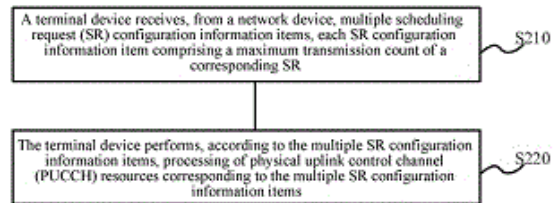
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: UPLINK TRANSMISSION METHOD, AND TERMINAL DEVICE

00: -

Provided in an embodiment of the present invention are an uplink transmission method, and a terminal device capable of realizing uplink transmission at existence of multiple scheduling request (SR) configuration information items. The method comprises: a terminal device receiving, from a network device, multiple scheduling request (SR) configuration information items, each SR configuration information item comprising a maximum transmission count of a corresponding SR; and the terminal device performing, according to the multiple SR configuration information items, processing of physical uplink control channel (PUCCH) resources corresponding to the multiple SR configuration information items.



21: 2020/00122. 22: 08/01/2020. 43: 2021/06/03

51: H04W

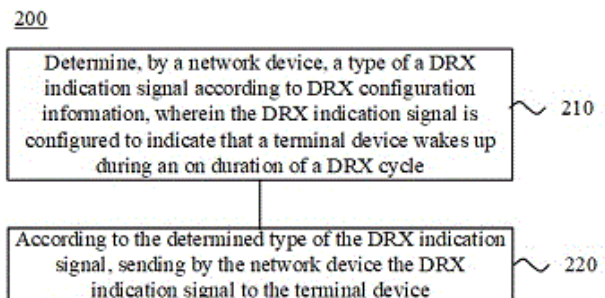
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

00: -

Provided in embodiments of the present application are a wireless communication method and device enabling the transmission of a discontinuous reception (DRX) instruction signal to better match a DRX configuration signal, improving communication performance. The method comprises: a network device determining, on the basis of discontinuous reception (DRX) configuration information, the type of DRX instruction signal, wherein a DRX instruction signal is used to instruct a terminal device to wake up in an active duration of a DRX cycle; and the network device transmitting, according to the determined type of DRX instruction signal, a DRX instruction signal to a terminal device.



21: 2020/00123. 22: 08/01/2020. 43: 2021/06/03

51: H04W

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

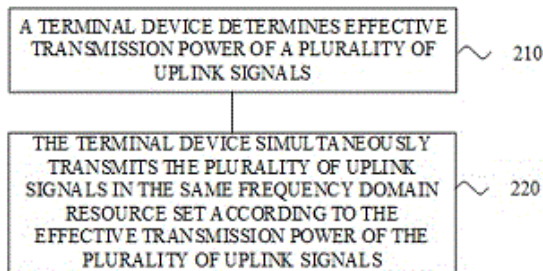
72: CHEN, WENHONG

54: SIGNAL TRANSMISSION METHOD AND TERMINAL DEVICE

00: -

Disclosed are a signal transmission method and a terminal device. The method comprises: the terminal

device determines effective transmission power of a plurality of uplink signals; the terminal device simultaneously transmits the plurality of uplink signals in the same frequency domain resource set according to the effective transmission power of the plurality of uplink signals. In this way, the terminal device determines the respective effective transmission power for the plurality of uplink signals to be transmitted simultaneously in the same frequency domain resource set, so as to simultaneously transmit the plurality of uplink signals in the same frequency domain resource set according to the effective transmission power of the plurality of uplink signals.



21: 2020/00124. 22: 08/01/2020. 43: 2021/06/03
51: H04L

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

33: CN 31: PCT/CN2018/079508 32: 2018-03-19

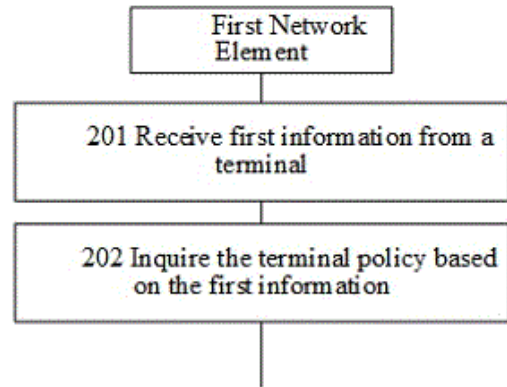
33: CN 31: PCT/CN2018/081166 32: 2018-03-29

33: CN 31: PCT/CN2018/078025 32: 2018-03-05

54: TERMINAL INFORMATION TRANSFER METHOD AND RELEVANT PRODUCTS

00: -

Disclosed are a terminal information transfer method and relevant products. The method comprises: a first network element receives first information from a terminal; the first network element queries a terminal policy according to the first information, the first information being used for indicating a terminal policy stored by the terminal, and being the content presented by a non-plaintext. Embodiments of the present application facilitate improving the security of the interaction process between a network side and terminal information in the terminal policy query process.



21: 2020/00125. 22: 08/01/2020. 43: 2021/06/14
51: H04L; H04W

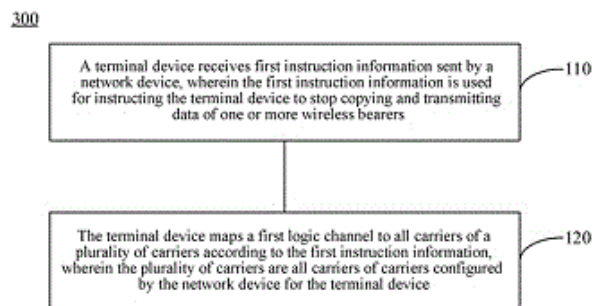
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

00: -

Provided are a wireless communication method, a terminal device and a network device. The wireless communication method comprises: a terminal device receiving first instruction information sent by a network device, wherein the first instruction information is used for instructing the terminal device to stop copying and transmitting data of one or more wireless bearers; the terminal device mapping a first logic channel to all carriers of a plurality of carriers according to the first instruction information, wherein the plurality of carriers are all carriers of carriers configured by the network device for the terminal device. In the embodiments of the present invention, by means of the first instruction information, the terminal device can map a logic channel to all carriers, thereby preventing the logic channel from being limited to a specified carrier, and thus the efficiency of data transmission is improved.



21: 2020/00126. 22: 08/01/2020. 43: 2021/06/14
51: H04W

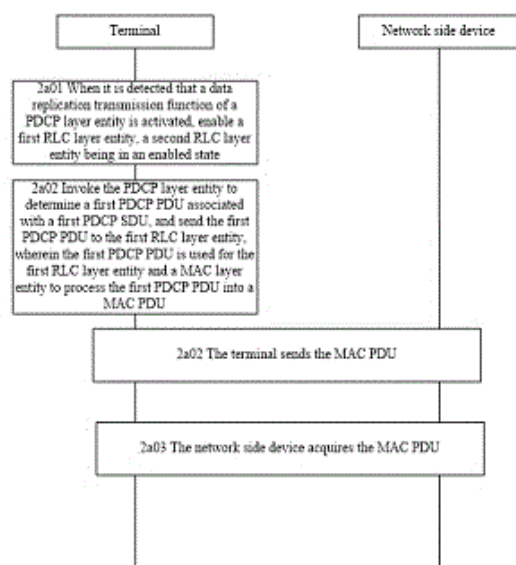
71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

54: DATA TRANSMISSION METHOD AND RELATED PRODUCT

00: -

Disclosed are a data transmission method and a related product. The method comprises: when it is detected that a data replication transmission function of a PDCP layer entity is activated, a terminal enabling a first RLC layer entity, a second RLC layer entity being in an enabled state; and invoking the PDCP layer entity to determine a first PDCP PDU associated with a first PDCP SDU, and sending the first PDCP PDU to the first RLC layer entity, wherein the first PDCP PDU is used for the first RLC layer entity and a MAC layer entity to process the first PDCP PDU into a MAC PDU and send same. The embodiments of the present invention facilitate the realization of a frequency diversity gain and improve the reliability of data transmission.



21: 2020/00156. 22: 09/01/2020. 43: 2021/06/03
51: H04W

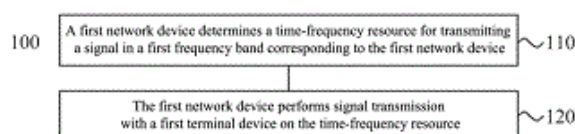
71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: YANG, NING, ZHANG, ZHI, TANG, HAI

54: METHOD FOR TRANSMITTING SIGNAL, NETWORK DEVICE AND TERMINAL DEVICE

00: -

Disclosed are a method for transmitting a signal, a network device and a terminal device. The method comprises: a first network device determining, in a first frequency band corresponding to the first network device, a time-frequency resource for transmitting a signal; and the first network device carrying out the transmission of the signal with a first terminal device on the time-frequency resource. The method, network device and terminal device according to the embodiments of the present application aid in improving the sensitivity of a receiver, thus improving the reliability of transmission.



21: 2020/00157. 22: 09/01/2020. 43: 2021/06/03
51: A61K; C07D; A61P

71: CELGENE CORPORATION

72: CORREA, MATTHEW D, ALEXANDER, MATTHEW D, ARTMAN, GERALD D. III, BRAY, GORDON L, CARMICHAEL, JAMES, CARRANCIO, SORAYA, CATHERS, BRIAN E, HANSEN, JOSHUA, HAVENS, COURTNEY G, KERCHER, TIMOTHY S, LOPEZ-GIRONA, ANTONIA, LU, XIAOLING, MAN, HON-WAH, NAGY, MARK A, NARLA, RAMA K, PICCOTTI, JOSEPH R, PIERCE, DANIEL W, TAVARES-GRECO, PAULA A, WHITEFIELD, BRANDON W, WONG, LILLY L, ZOU, NANFEI

33: US 31: 62/530,778 32: 2017-07-10

33: US 31: 62/675,581 32: 2018-05-23

33: US 31: 62/593,185 32: 2017-11-30

54: ANTIPROLIFERATIVE COMPOUNDS AND METHODS OF USE THEREOF

00: -

Provided herein is 4-(4-(((2-(2,6-dioxopiperidin-3-yl)-1-oxoisindolin-4-yl)oxy)methyl)benzyl)piperazin-1-yl)-3-fluorobenzonitrile, or an enantiomer, a mixture of enantiomers, a tautomer, or a pharmaceutically acceptable salt thereof, and methods for treating, preventing or managing multiple myeloma using such compounds. Also provided are pharmaceutical compositions comprising the compounds, and methods of use of the compositions.

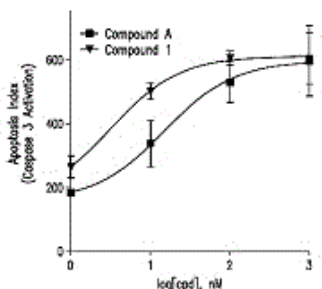


Figure 1A

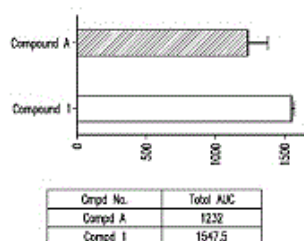


Figure 1B

21: 2020/00175. 22: 10/01/2020. 43: 2021/06/14

51: H04W

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

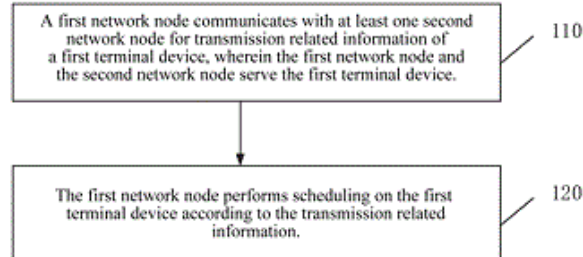
72: CHEN, WENHONG, ZHANG, ZHI

54: WIRELESS COMMUNICATION METHOD AND NETWORK NODE

00: -

Provided are a wireless communication method and a network node, which may improve communication performance. The method comprises: a first network node communicates with at least one second network node with regard to transmission related information of a first terminal device, and the first network node and the second network node serve the first terminal device; and the first network node carries out scheduling for the first terminal device according to the transmission related information.

100



21: 2020/00176. 22: 10/01/2020. 43: 2021/06/14

51: E02F; A01B

71: METALOGENIA RESEARCH & TECHNOLOGIES S.L.

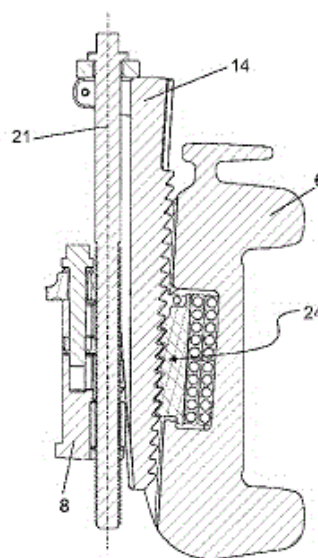
72: ROL CORREDOR, JAVIER, LÓPEZ REQUEJO, SERGIO, PICON MANJÓN, FRANCESC, MARTÍNEZ MAÑÉ, ANGEL, PÉREZ SORIA, FRANCISCO, TRIGINER BOIXEDA, JORGE, ROCA, NURIA, IBÁÑEZ COTADO, DAVID

33: EP 31: 17382445.9 32: 2017-07-07

54: METHOD OF FIXING A WEAR ELEMENT ON THE FRONT EDGE OF A SUPPORT AND CORRESPONDING FIXING MEANS

00: -

The invention relates to a method of fixing a wear element (2) on the front edge of a support (1) using fixing means, where the wear element (2) comprises two arms (3) with first through openings (4) and the support (1) has a second through opening (5) sandwiched between the first through openings (4). The fixing means comprise a C-shaped first body (6), a wedge (14), ratchet means (24) between both and a second body (8), which are housed in the openings in an assembled position. The method consists of positioning the first body (6) and the second body (8) in the openings, inserting the wedge (14) between both, positioning a screw (21) between the wedge (14) and the second body (8) and screwing it in such a way that the wedge (14) moves with respect to the second body (8) and the first body (6) until the wedge (14) reaches its assembled position, and at least partially unscrewing the screw (21) and removing the screw (21) from the fixing means.



21: 2020/00178. 22: 10/01/2020. 43: 2021/06/03
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

72: SHREEVASTAV, RITESH, BERGSTRÖM,
MATTIAS, STATTIN, MAGNUS, SUI, YUTAO

33: US 31: 62/544,095 32: 2017-08-11

54: TECHNIQUE FOR GENERATING AND/OR MANAGING RNTIS

00: -

A wireless device is provided that is configured to determine a Random Access-Radio Network Temporary Identifier, RA-RNTI, for use in a radio network system. The wireless device comprises a first counter configured to be incremented after a predefined period of time and to be re-set when having reached a predefined first number, wherein the first counter counts a first count; a second counter configured to be incremented when the first counter reaches the predefined first number and to be re-set when having reached a predefined second number, wherein the second counter counts a second count; and a third counter configured to be incremented when the second counter reaches the predefined second number and to be re-set when having reached a predefined third number, wherein the third counter counts a third count. The wireless device is configured to determine an RA-RNTI at least based on the second count and the third count.

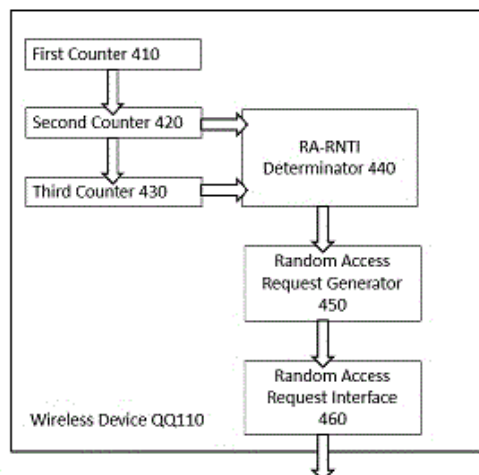


Fig. 4A

21: 2020/00179. 22: 10/01/2020. 43: 2021/06/03
51: H04B

71: NICHOLAS-ALEXANDER LLC

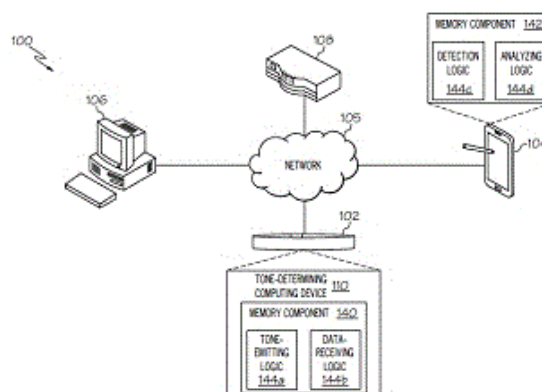
72: WEBSTER, THOMAS

33: US 31: 62/529,296 32: 2017-07-06

54: SYSTEMS AND METHODS FOR PROVIDING A TONE EMITTING DEVICE THAT COMMUNICATES DATA

00: -

Embodiments disclosed herein generally relate to systems and methods for communicating data with a tone-emitting device. A system for communicating an inaudible tone includes a tone-emitting device. The tone-emitting device includes a tone-emitting speaker for emitting an inaudible tone and a tone-determining computing device communicatively coupled to the tone-emitting speaker. The tone-determining computing device includes a non-transitory computer-readable medium that stores logic that, when executed by the tone-determining computing device, causes the tone-determining computing device to receive data related to a characteristic of an object, encode an inaudible tone that represents at least a portion of the data and send instructions to the tone-emitting speaker for outputting the inaudible tone.



21: 2020/00183. 22: 10/01/2020. 43: 2021/06/03
51: C01B; A61F; A61L; C08K

71: MAX-PLANCK-GESELLSCHAFT ZUR
FÖRDERUNG DER WISSENSCHAFTEN E.V.

72: FISCHER, DIETER, MANNHART, JOCHEN

33: DE 31: 10 2017 115 672.0 32: 2017-07-12

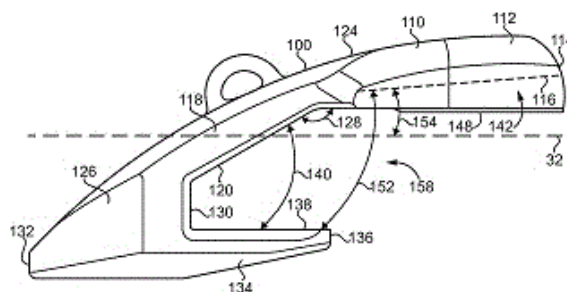
54: HYDROXYLAPATITE/GELATINE COMPOSITE MATERIAL AND THE USE OF SAME, PARTICULARLY AS ARTIFICIAL IVORY, AND METHOD FOR PRODUCING SAME

00: -

The invention relates to a method for producing a multi-purpose isotropic hydroxylapatite/gelatin composite material, involving at least the following steps: a) providing a suspension of powdered

hydroxylapatite in a liquid medium selected from the group comprising a C1-C10 alcohol, particularly ethanol, another dispersing agent that can be mixed with water, water, and mixtures thereof; b) adding an aqueous solution of gelatine, preferably at a concentration of 5 to 25 wt.% gelatine, to the suspension; c) agitating the mixture at a predefined temperature for a predefined period of time, preferably in the region of 1 to 10 hours, until the liquid medium has been fully or partially evaporated; and d) optionally drying the product obtained in step c). In a specific embodiment, the method is characterised in that the product obtained in step c) or d) is additionally infiltrated with at least one aliphatic polyether in an additional step e1). In another specific embodiment, the method is characterised in that the product obtained in step c), d) or e1) is additionally brought into contact with at least one agent for crosslinking the gelatine chains, in step e2). A further aspect of the invention relates to the composite material produced using the method described above, and the use of same, particularly as artificial ivory.

of the upper end inner surface (116) may be such that a clearance (212) is formed between the upper end inner surface (116) and the pry boss (36) when moving the edge shroud (100) forward in a disengaging direction (202) relative to the implement (12). The clearance (212) reduces frictional force opposing movement of the edge shroud (100) in the disengaging direction (202). The pry boss (36) may also include at least one pry notch (58) having a pry surface (60), the pry notch (58) being structured to receive a free end of a pry tool (308) for prying the pry boss (36) out of the assembly (10) in a pry-off direction (304).



21: 2020/00194. 22: 10/01/2020. 43: 2021/06/02
51: E02F

71: CATERPILLAR INC.

72: KUNZ, PHILLIP J

33: US 31: 15/622,984 32: 2017-06-14

54: EDGE SHROUD AND METHOD FOR REMOVING EDGE SHROUD FROM AN IMPLEMENT

00: -

An implement assembly (10) includes an implement (12) having a forward edge (24) and an edge protection system (20). The edge protection system (20) includes at least one edge shroud (100) having a lower leg (134) that includes a lower end (136) and a lower end inner surface (138), an upper leg (110), and a wedge portion (126), the upper leg (110) including an upper end portion (112) and a connecting portion (118). The upper end portion (112) has an upper end inner portion (116) that may be angled to the lower end inner surface (138) and/or a horizontal plane (32) extending between the upper leg (110) and the lower leg (134). The system (20) also includes a boss assembly (34) structured to couple the edge shroud (100) to the implement (12), and including a pry boss (36). The angle (152)

21: 2020/00195. 22: 10/01/2020. 43: 2021/06/02
51: E02F

71: CATERPILLAR INC.

72: KUNZ, PHILLIP J

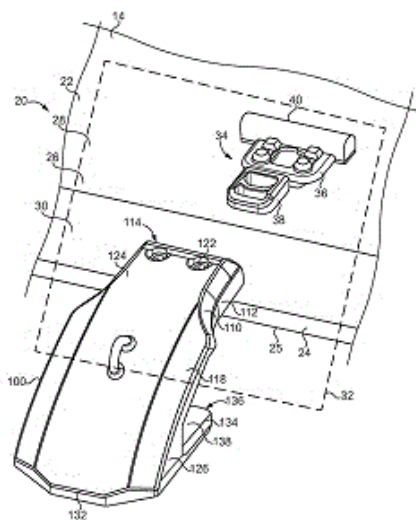
33: US 31: 15/622,997 32: 2017-06-14

54: EDGE PROTECTION SYSTEM FOR AN IMPLEMENT

00: -

An implement assembly (10) includes an implement (12) having a forward edge (24) and an edge protection system (20). The edge protection system (20) includes at least one edge shroud (100) having a lower leg (134) that includes a lower end (136) and a lower end inner surface (138), an upper leg (110), and a wedge portion (126), the upper leg (110) including an upper end portion (112) and a connecting portion (118). The upper end portion (112) has an upper end inner portion (116) that may be angled to the lower end inner surface (138) and/or a horizontal plane (32) extending between the upper leg (110) and the lower leg (134). The system (20) also includes a boss assembly (34) structured to couple the edge shroud (100) to the implement (12), and including a pry boss (36). The angle (152) of the upper end inner surface (116) may be such that a

clearance (212) is formed between the upper end inner surface (116) and the pry boss (36) when moving the edge shroud (100) forward in a disengaging direction (202) relative to the implement (12). The clearance (212) reduces factional force (206) opposing movement of the edge shroud (100) in the disengaging direction (202). The pry boss (36) may also include at least one pry notch (58) having a pry surface (60), the pry notch (58) being staictured to receive a free end of a pry tool (308) for prying the pry boss (36) out of the assembly (10) in a pry off direction (304).



21: 2020/00196. 22: 10/01/2020. 43: 2021/06/02
51: C07F

71: DOW TECHNOLOGY INVESTMENTS LLC
72: BIGI, MARINUS A, BRAMMER, MICHAEL A,
MILLER, GLENN A

33: US 31: 62/521,643 32: 2017-06-19

54: PROCESSES FOR PURIFYING LIGANDS

00: -

Embodiments of the present invention are directed to processes for purifying ligands such as organopolysphosphite ligands. In one embodiment, a process comprises: (a) receiving a solid organopolysphosphite compound that has been recrystallized or triturated at least once, wherein the solid organopolysphosphite compound comprises greater than one weight percent of an oxidized phosphite impurity and wherein the organopolysphosphite compound is substantially free of solvent; (b) slurring the solid organopolysphosphite compound in a C₂ or higher

alcohol at a temperature of at least 60°C for at least 20 minutes to reduce the oxidized phosphite impurity in the solid phase; and (c) removing liquid comprising dissolved oxidized phosphite impurity from the slurry, wherein the residual oxidized phosphite impurity content of the organopolysphosphite compound following step (c) is 1 weight percent or less.

21: 2020/00202. 22: 13/01/2020. 43: 2021/06/03

51: B07B; B01D

71: DERRICK CORPORATION

72: WOJCIECHOWSKI, KEITH F

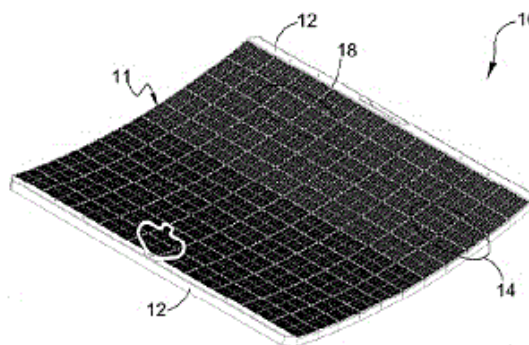
33: US 31: 61/714,882 32: 2012-10-17

33: US 31: 61/652,039 32: 2012-05-25

54: INJECTION MOLDED SCREENING APPARATUSES AND METHODS

00: -

This invention concerns screening members and in particular screening assemblies. There is also provided methods for fabricating screening members and assemblies and methods for screening materials for vibratory screening machines that incorporate the use of injection molded materials. Use of injection molded screen elements provide, inter alia, for: varying screening surface configurations; fast and relatively simple screen assembly fabrication; and a combination of outstanding screen assembly mechanical and electrical properties, including toughness, wear and chemical resistance. Embodiments of the present invention use a thermoplastic injection molded material.



21: 2020/00219. 22: 13/01/2020. 43: 2021/06/03

51: C07K; C12N; C12P; G01N

71: ASTELLAS PHARMA INC.

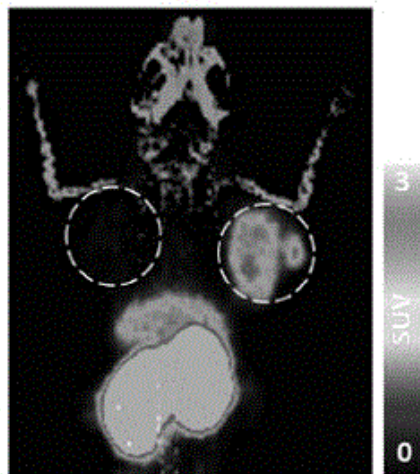
72: DOIHARA, HITOSHI, HIRAYAMA, KAZUNORI, SHIRAI, HIROKI

33: JP 31: 2017-133698 32: 2017-07-07

54: NOVEL ANTI-HUMAN CEACAM5 ANTIBODY FAB FRAGMENT

00: -

Provided are an anti-human CEACAM5 antibody Fab fragment expected to be useful in the diagnosis of a cancer, particularly, the diagnosis of colorectal cancer, breast cancer, lung cancer, thyroid gland cancer or a cancer resulting from the metastasis thereof, and a diagnosis approach using a conjugate comprising the Fab fragment. The present invention provides an anti-human CEACAM5 antibody Fab fragment comprising a heavy chain fragment comprising a heavy chain variable region consisting of the amino acid sequence represented by amino acid positions 1 to 121 of SEQ ID NO: 2, and a light chain comprising a light chain variable region consisting of the amino acid sequence represented by amino acid positions 1 to 112 of SEQ ID NO: 4, and a conjugate comprising the Fab fragment.



21: 2020/00221. 22: 13/01/2020. 43: 2021/06/03

51: H01R

71: MARECHAL ELECTRIC

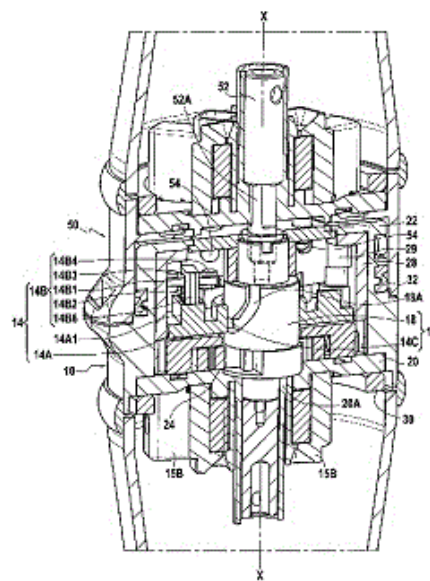
72: HOUIR ALAMI, MOUNIM

33: FR 31: 1755814 32: 2017-06-26

54: ELECTRICAL CONNECTION MOUNT COMPRISING A MOVABLE CONNECTION ELEMENT, ADDITIONAL ELECTRICAL CONNECTION MOUNT, AND ASSEMBLY COMPRISING SUCH MOUNTS

00: -

An electrical connection mount (10) extending in an axial direction (X) and comprising an element (14) that can move in the axial direction (X) between a contact position and an isolated position, wherein the movable element (14) is configured to come into contact with at least one additional contact (54) of an additional electrical connection mount (50) in a contact position, while the movable element (14) is configured to be remote from at least one additional contact (54) of the additional electrical connection mount (50) in an isolated position, the electrical connection mount (10) comprising a movement mechanism (16) configured to move the movable element (14) between the contact position and the isolated position when the electrical connection mount (10) and the additional electrical connection mount (50) are engaged and rotated relative to one another about the axial direction (X).



21: 2020/00223. 22: 13/01/2020. 43: 2021/06/03

51: A01G

71: NETAFIM LTD

72: SCHWEITZER, ABRAHAM

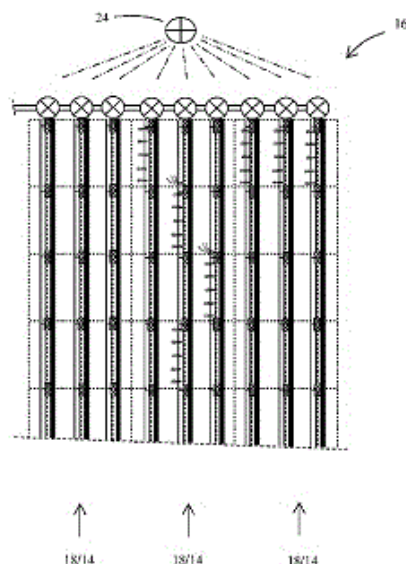
33: US 31: 62/534,708 32: 2017-07-20

54: IRRIGATION SYSTEM AND METHOD

00: -

An irrigation column (20) for a drip irrigation system has a fluid conducting line (32) for receiving fluid from a fluid source (30) upstream. The irrigation column further includes a plurality of drip segments (38) extending alongside the fluid conducting line, a plurality of zone valves (26) located along the fluid

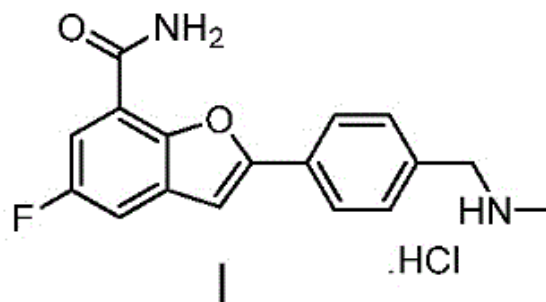
conducting line, and a plurality of control tubes (341, 342, 343) extending alongside the fluid conducting line. And each control tube is in fluid communication with a respective one of the zone valves for actuating the zone valve.



21: 2020/00224. 22: 13/01/2020. 43: 2021/06/03
51: C07D; A61K; A61P
71: SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES, FUKANG (SHANGHAI) HEALTH TECHNOLOGY CO., LTD.
72: YANG, CHUNHAO, MIAO, ZEHONG, TAN, CUN, HUAN, XIAJUAN, DING, JIAN, CHEN, YI
33: CN 31: 201710449281.2 32: 2017-06-14
54: 2-[4-(METHYLAMINOMETHYL)PHENYL]-5-FLUORO-BENZOFURAN-7-CARBOXAMIDE HYDROCHLORIDE POLYMORPH, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

00: -

Disclosed are a 2-[4-(methylaminomethyl)phenyl]-5-fluoro-benzofuran-7-carboxamide hydrochloride polymorph, a preparation method therefor and an application thereof. Specifically, disclosed are three crystalline forms, i.e., crystalline forms A, B, and C, of 2-[4-(methylaminomethyl)phenyl]-5-fluoro-benzofuran-7-carboxamide hydrochloride (formula I), preparation methods for the three crystalline forms, and use of the three crystalline forms in preparation of drugs.



21: 2020/00238. 22: 14/01/2020. 43: 2021/06/03
51: A61K; A61P
71: JIANGSU HENGRUI MEDICINE CO., LTD., SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.

72: FANG, JINGJING, YAN, ZHEN, LIU, XUN
33: CN 31: 201710621754.2 32: 2017-07-27
54: SOST ANTIBODY PHARMACEUTICAL COMPOSITION AND USES THEREOF

00: -

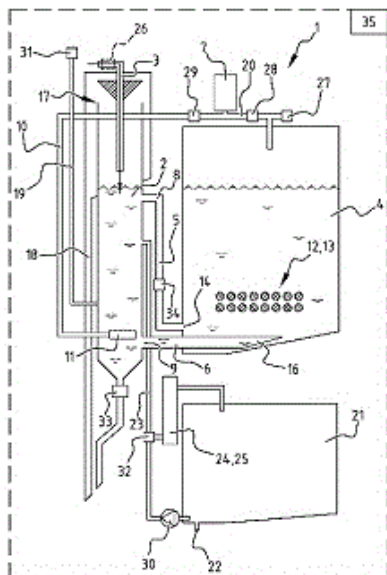
A pharmaceutical composition. The pharmaceutical composition comprises an SOST antibody or antibody binding fragments thereof in an acetic acid-sodium acetate buffer solution. In addition, the pharmaceutical composition may also comprise sugar, a nonionic surfactant or other excipients. After stored for several months, the pharmaceutical composition shows good antibody stability.

21: 2020/00239. 22: 14/01/2020. 43: 2021/06/03
51: C02F; E03D; E03B
71: HYDRALOOP INTERNATIONAL B.V.
72: VALKIESER, ARTHUR J L
33: NL 31: 2019174 32: 2017-07-04
54: GREY WATER TREATMENT SYSTEMS AND METHODS OF TREATING GREY WATER

00: -

The invention relates to a grey water treatment system comprising: a first tank that is configured to receive grey water via a grey water supply conduit and that comprises an overflow; a second tank that is configured to store grey water; and at least one transfer conduit that is configured to at least transfer grey water between the first tank and the second tank; and a control that is configured to maintain a water level in said first tank sufficiently close to the overflow to allow floating contaminants to pass over the overflow. Furthermore, the invention relates to a method of treating grey water, comprising the steps of: receiving grey water in a first tank of a grey water

treatment system; transferring grey water via at least one transfer conduit between the first tank and a second tank of said grey water treatment system; and controlling a water level in said first tank sufficiently close to an overflow of said first tank to allow floating contaminants to pass over the overflow.



21: 2020/00260. 22: 15/01/2020. 43: 2021/06/22
51: B23D; B26D
71: ANDRITZ AG

72: ORNIK, Michael, GRONOSTAY, Jürgen,
JAMMERNEGG, Alois

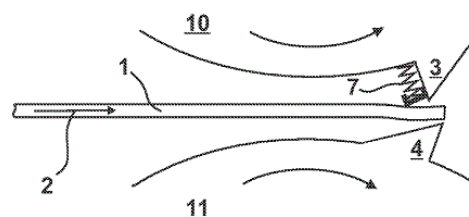
33: AT 31: A 50777/2017 32: 2017-09-15

54: METHOD FOR CROSS-CUTTING A MATERIAL WEB MOVED IN A DIRECTION OF MOVEMENT, AND DEVICE THEREFOR

00: -

The invention relates to a method for cross-cutting a material web (1), in particular a pulp web or the like, that is moved in a direction of movement (2), wherein the material web (1) is moved through between two axes of rotation oriented approximately perpendicularly to the direction of movement (2), about which axes of rotation cooperating blades (3, 4) are moved with a rotary movement, said blades (3, 4) cutting the material web (1) approximately perpendicularly to the direction of movement (2) as said material web (1) passes through between the axes of rotation. In order to achieve a high-quality cut edge with little noise pollution and high system availability, the invention provides that, after the material web (1) has been cut, a force is applied to a

part of the material web (1) that is carried along with a blade (3, 4) and in particular a part of the material web (1) that bears against a blade (3, 4), in order to separate the material web (1) from the rotary movement of the blade (3, 4). Furthermore, the invention relates to a device for cross-cutting a material web (1) that is moved in a direction of movement (2), having at least two cooperating blades (3, 4), which are rotatable about axes of rotation arranged approximately perpendicularly to the direction of movement (2), wherein the material web (1) is movable through between the axes of rotation, such that the material web (1) is able to be cut by the blades (3, 4) approximately transversely to the direction of movement (2).



21: 2020/00280. 22: 15/01/2020. 43: 2021/06/03
51: A61P

71: PROMETIC BIOTHERAPEUTICS, INC.

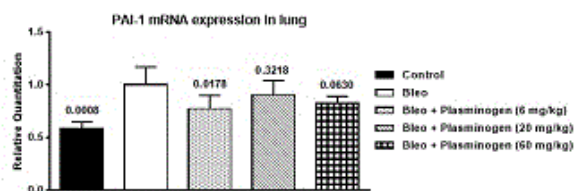
72: GAGNON, LYNE, GROUX, BRIGITTE, LAURIN,
PIERRE

33: US 31: 62/523,901 32: 2017-06-23

54: PLASMINOGEN TREATMENT OF CONDITIONS ASSOCIATED WITH PAI-1 OVEREXPRESSION

00: -

The present invention concerns the use of plasminogen, a variant thereof, or an analog thereof having a plasminogen activity, for the prevention or treatment of a condition or a disease that is characterized with an increased PAI-1 level. The conditions and diseases that are characterized with an increased PAI-1 level, are regrouped within two categories: the diseases associated with an impaired vascular or tissue remodeling capacity, and the metabolic and hormonal disorders associated with an increased PAI-1 level.



21: 2020/00283. 22: 15/01/2020. 43: 2021/06/03
51: B05D

71: STAHL INTERNATIONAL B.V.

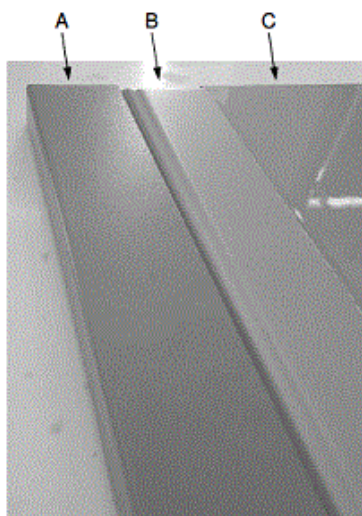
72: MCCORMICK, MICHAEL DENIS, AIXALA-MARIMON, ORIOL, ZIMMERMANN, FRANK

33: NL 31: 2019197 32: 2017-07-07

54: POWDER COATING METHOD AND COATED ARTICLE

00: -

The invention relates to a method of coating an article and to a coated article. A method according to the invention comprises: providing a substrate coated with a first powder coating layer; optionally heating the substrate and first layer so as to at least partially melt or soften the first powder coating layer, wherein said first powder coating layer is not or only partially cured; applying a second powder coating layer on said first layer; and curing said first and second layer.



21: 2020/00284. 22: 15/01/2020. 43: 2021/06/03
51: C25C; C22B

71: AALTO UNIVERSITY FOUNDATION SR

72: LUNDSTRÖM, MARI, YLINIEMI, KIRSI, HALLI, PETTERI, FRANSSILA, SAMULI, JOKINEN, VILLE, HEIKKINEN, JOONAS

33: FI 31: 20175591 32: 2017-06-22

54: A METHOD OF RECOVERING PT OR AG OR PT AND AG FROM SULFATE BASED METAL SOLUTIONS

00: -

The invention relates to a method of recovering Pt or Ag or Pt and Ag from a sulfate solution on an electrode. In particular, the invention concerns a method for recovering Pt or Ag or Pt and Ag from base metal bearing process solution, particularly from a hydrometallurgical sacrificial metal bearing solution containing Zn and/or Ni. In general, the method of the present invention can be used for recovery of precious metals, which are dissolvable in sulfuric acid, from sulfate media based solutions. In addition to Pt and Ag, especially Pd should be mentioned. Deposited precious metal(s) can be recovered from the electrode or the deposition containing electrode can be used as such.

21: 2020/00286. 22: 15/01/2020. 43: 2021/06/14
51: C07C; B01J

71: DOW TECHNOLOGY INVESTMENTS LLC

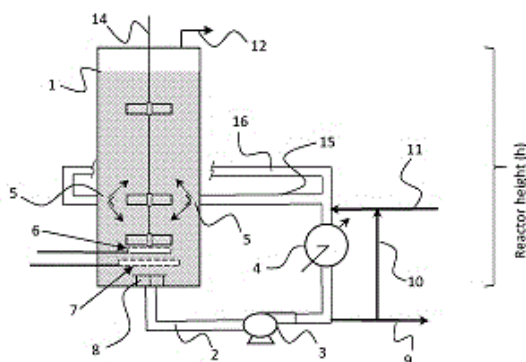
72: BECKER, MICHAEL C, CAMPBELL, DONALD L, COX, IRVIN B, DAS, SHANKHADEEP, KUMAR, SESHADRI, MILLER, GLENN A, PARMAR, NILESH, PHILLIPS, GEORGE R

33: IN 31: 201741022124 32: 2017-06-23

54: HYDROFORMYLATION REACTION PROCESS

00: -

In one aspect, a hydroformylation reaction process comprises contacting an olefin, hydrogen, and CO in the presence of a homogeneous catalyst in a cylindrical reactor to provide a reaction fluid, wherein the reactor has a fixed height, and wherein a total mixing energy of at least 0.5 kW/m³ is delivered to the fluid in the reactor; removing a portion of the reaction fluid from the reactor; and returning at least a portion of the removed reaction fluid to the reactor, wherein the returning reaction fluid is introduced in at least two return locations positioned at a height that is less than 80% of the fixed height, wherein the at least two return locations are positioned above a location in the reactor where hydrogen and carbon monoxide are introduced to the reactor, and wherein at least 15% of the mixing energy is provided by the returning reaction fluid.



21: 2020/00311. 22: 2020/01/16. 43: 2021/06/22

51: B05C; C21D; C23C

71: ArcelorMittal Bissen & Bettembourg

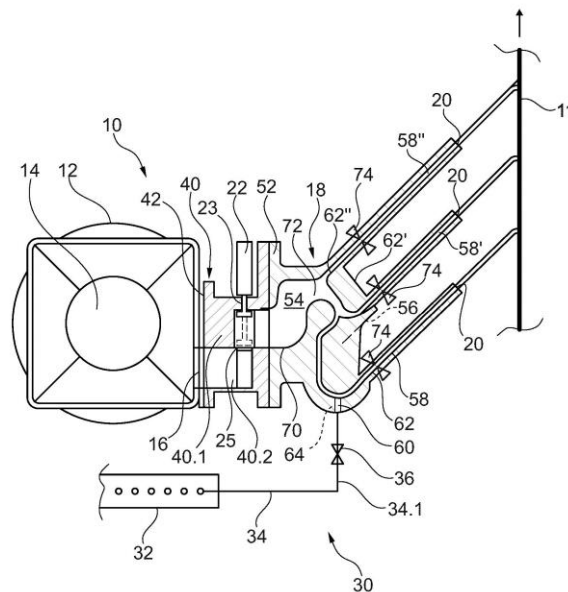
72: RICHE, Loïc

33: LU 31: 100 329 32: 2017-06-28

54: GALVANIZED-WIRE COOLING DEVICE

00: -

A cooling system for a wire-coating installation comprises: a supply unit (12) with a chamber (14) for a cooling fluid and a plurality of fluid outlets (16); and a plurality of spray heads (18) each equipped with one or more orifices (20) for spraying the cooling fluid towards a wire (11) that is to be cooled, each spray head being connected to a respective fluid outlet (16) so as to supply fluid to an internal passage (54) of the spray head (18) extending as far as the spray orifice(s). A service valve (22) is associated with each spray head (18) so as to selectively control the supply of fluid to the internal passage (54) of the spray head. A purge means (30) is associated with each spray head (18), the triggering of which purge means allows fluid to be discharged from the internal passage (54), in order to stop the spraying of fluid through the spray orifice(s) (20).



21: 2020/00313. 22: 16/01/2020. 43: 2021/06/03

51: G01N; G01H; G01K

71: ACOSENSE AB

72: KOCHER, JOHANNES, HANSSON, LARS

33: SE 31: 1750793-0 32: 2017-06-20

54: A HOLDING ARRANGEMENT FOR AN ACOUSTIC TRANSMITTER IN AN ACOUSTIC SPECTROSCOPY SYSTEM

00: -

There is provided a holding arrangement (100, 200) for holding an acoustic transmitter (101) in place in relation to a container. The arrangement comprises: a body (102) comprising a cavity (104) for holding an acoustic transmitter, the cavity comprising an opening (106) arranged to face said container when said arrangement is attached to a container, wherein the body comprises acoustic damping material, and wherein the cavity is configured to permit movement of an acoustic transmitter in a direction perpendicular to a container surface and to restrict movement of the acoustic transmitter in directions not perpendicular to the container surface when an acoustic transmitter is arranged in said cavity and when said arrangement is attached to a container. There is also provided a measurement arrangement comprising such a holding arrangement.

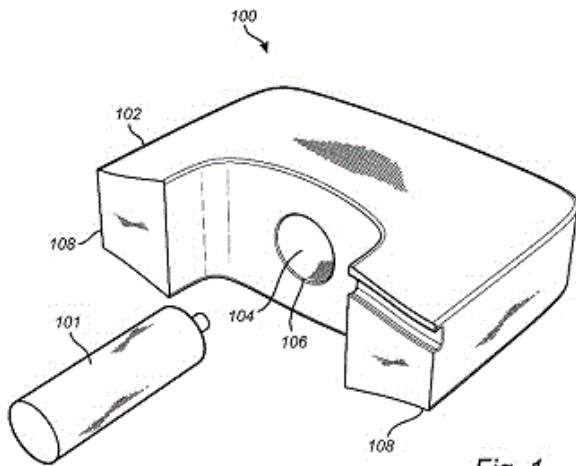
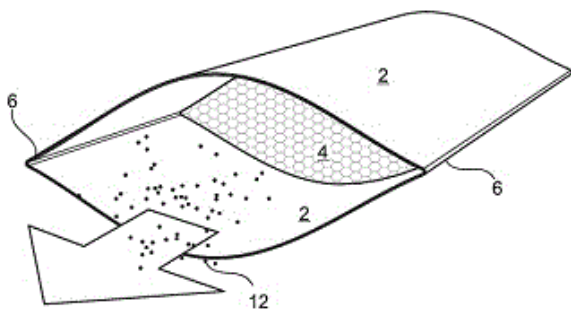


Fig. 1

21: 2020/00314. 22: 16/01/2020. 43: 2021/06/03
 51: A61M
 71: INHALER LIMITED
 72: SMITH, DONALD, ANDERSON, GREGOR
 JOHN MCLENNAN, MCMYN, LISA CHARLESTON,
 SUTTIE, ALAN MILLER
 33: GB 31: 1710653.5 32: 2017-07-03
54: INHALER
 00: -

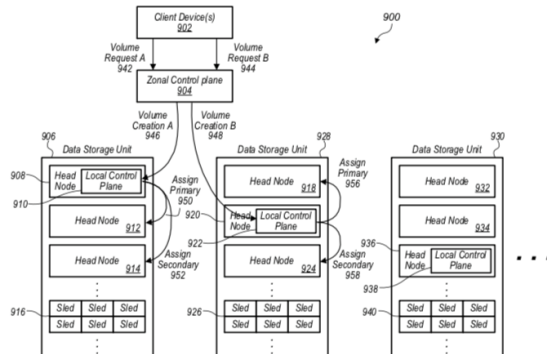
A device for inhaling an active agent is provided that can be moved from a first configuration to a second configuration. The device comprises two flexible substrates and a membrane located between the two flexible substrates, and the two flexible substrates being connected at two opposing edges and unconnected at two further opposing edges. An active agent provided on the membrane may be inhaled by a user when the device is in the second configuration. A method of using the device is also provided.



21: 2020/00318. 22: 2020/01/16. 43: 2021/07/06
 51: B01D

71: AMAZON TECHNOLOGIES, INC.
 72: KUSTERS, Norbert P, ARUMUGAM,
 Nachiappan, WATSON, Christopher Nathan,
 BROOKER, Marc John, RICHARDSON, David R,
 WEI, Danny, GUTHRIE, John Luther II
 33: US 31: 15/392,835 32: 2016-12-28
**54: DATA STORAGE SYSTEM WITH
 REDUNDANT INTERNAL NETWORKS**
 00: -

A data storage system includes multiple data storage units and a zonal control plane. The zonal control plane assigns volumes to respective ones of the data storage units. The data storage units include multiple head nodes and data storage sleds. At least one of the head nodes implements a local control plane for the data storage unit. Also, the head nodes of each data storage unit are configured to service read and write requests directed to one or more volumes serviced by the data storage unit independent of the zonal control plane.

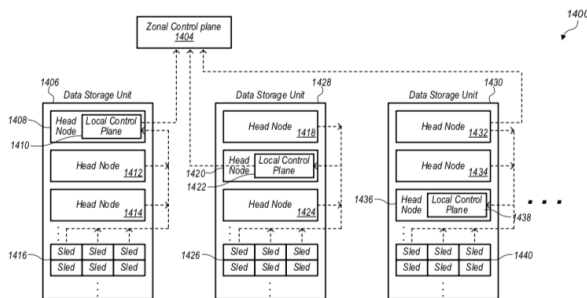


21: 2020/00319. 22: 2020/01/16. 43: 2021/07/06
 51: G06F; H04L

71: AMAZON TECHNOLOGIES, INC.
 72: KUSTERS, Norbert P, ARUMUGAM,
 Nachiappan, WATSON, Christopher Nathan,
 BROOKER, Marc John, RICHARDSON, David R,
 WEI, Danny, GUTHRIE, John Luther II, SHALEV,
 Leah
 33: US 31: 15/392,857 32: 2016-12-28
**54: DATA STORAGE SYSTEM WITH ENFORCED
 FENCING**
 00: -

A data storage system includes multiple head nodes and data storage sleds. The data storage sleds include multiple mass storage devices and a sled controller. Respective ones of the head nodes are

configured to obtain credentials for accessing particular portions of the mass storage devices of the data storage sleds. A sled controller of a data storage sled determines whether a head node attempting to perform a write on a mass storage device of a data storage sled that includes the sled controller is presenting with the write request a valid credential for accessing the mass storage devices of the data storage sled. If the credentials are valid, the sled controller causes the write to be performed and if the credentials are invalid, the sled controller returns a message to the head node indicating that it has been fenced off from the mass storage device.



21: 2020/00336. 22: 2020/01/17. 43: 2021/06/22
51: B32B

71: Saint-Gobain Glass France
72: BOUILLET, Fabien, SHACKLEFORD, David,
REBUFA, Jocelyn

33: FR 31: 1757020 32: 2017-07-24

54: HYBRID POLYMER FOR VISCO-ELASTIC PLASTIC SPACER

00: -

The invention relates to a visco-elastic plastic spacer intended to be arranged between two glass sheets (1, 2) of glazing in order to provide said glazing with vibro-acoustic damping properties, the spacer comprising: - two outer layers (4, 5) made of thermoplastic adhesive; - an inner layer (3) arranged between the two outer layers (4, 5), said inner layer (3) having a loss factor $\tan \delta$ that is greater than or equal to 1.6 at 20°C and for a frequency range between 2 kHz and 8 kHz; and - a first and a second barrier layer (6, 7), respectively arranged between said outer layers (4, 5) and the inner layer (3), and made up of a visco-elastic plastic material. The invention allows a spacer with improved acoustic insulation, both airborne and structure-borne, to be

provided for laminated glazing, particularly at the coincidence frequency, whilst maintaining satisfactory features in terms of stiffness, fineness and lightness.

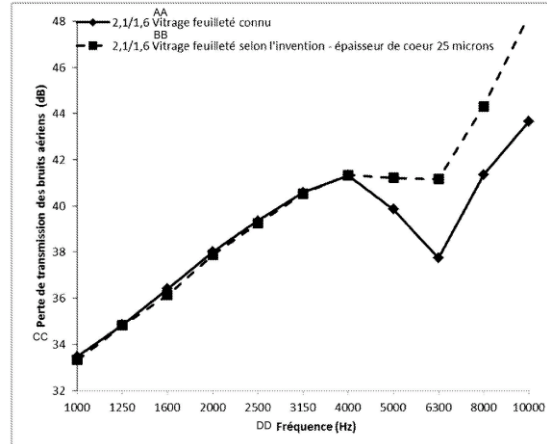


Fig.2

AA Known laminated glazing
BB Laminated glazing according to the invention - core thickness 25 microns
CC Loss of transmission of airborne noises (dB)
DD Frequency (Hz)

21: 2020/00341. 22: 17/01/2020. 43: 2021/06/03
51: A47D; A45F; A61F

71: LEONETTI, FELIPE DE BARROS

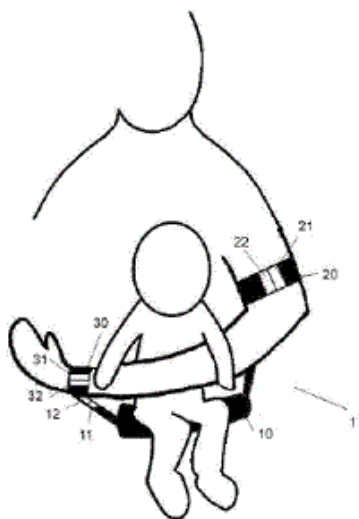
72: LEONETTI, FELIPE DE BARROS

33: BR 31: BR202017013077-6 32: 2017-06-19

54: ARM SUPPORT FOR CARRYING A BABY

00: -

The arm support (1) for carrying a baby is a lightweight, versatile accessory aimed at making an adult's task of carrying a baby easier. The arm support for carrying a baby is secured to the adult's arm and forms a seat (10) for the baby. The baby is placed in a very comfortable position, with a great deal of contact with the adult's body and with enough ventilation. For the adult, the baby's position affords a sensation of great security, since the adult's forearm is in a position in which it is always encircling the baby. The accessory offers a great advantage over existing models on the market in terms of ease of dressing and accommodating the baby. It also offers the flexibility for the baby to be moved and provides a higher level of safety.



71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY

33: CN 31: 201810089353.1 32: 2018-01-30

00: -

According to the existing ecological, hydrological, and geological information, the present invention can rapidly and effectively classify the different eco-geological environment types, and further determine eco-geological features and their sensitivity to coal resource exploitation. In this way, the present invention provides a scientific basis for selecting an appropriate coal mining mode to realize exploitation and utilization of the coal resource while the valuable

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graph TD
    A[Collect ecological, hydrological, and geological information of a study area] --> B[Establish a hierarchical structure model for classification of eco-geological environment types]
    B --> C[Acquire ecological, hydrological, and geological data]
    C --> D[Import the data into ArcGIS, and process the data into floating-point data (.flt)]
    C --> E[Determine a weight coefficient of each indicator for its importance to the eco-geological environment by means of an FDAHP]
    D --> F[Make the floating-point data dimensionless by MATLAB]
    F --> G[With MATLAB as a computing platform, perform superimposed clustering computation for the influence factors by means of weighted fuzzy C-means clustering, to obtain clustering results]
    E --> G
    G --> H[Import the clustering results into ArcGIS for processing, and analyze and judge the eco-geological environment types according to a cluster center value regarding each indicator and indicator features]
    H --> I[Finally acquire a zoning map based on the eco-geological environment types]
  
```

The flowchart illustrates the process of eco-geological environment type classification. It begins with data collection, followed by model establishment and data acquisition. The data is then processed in ArcGIS and MATLAB to create dimensionless floating-point data. A weight coefficient is determined using FDAHP. Superimposed clustering is performed using weighted fuzzy C-means in MATLAB. The results are imported back into ArcGIS for analysis and judgment, leading to the final zoning map.

71: UNILEVER PLC

33: EP 31: 17183024.3 32: 2017-07-25

33: US 31: 62/529672 32: 2017-07-07

00: -

21: 2020/00344. 22: 17/01/2020. 43: 2021/06/03
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

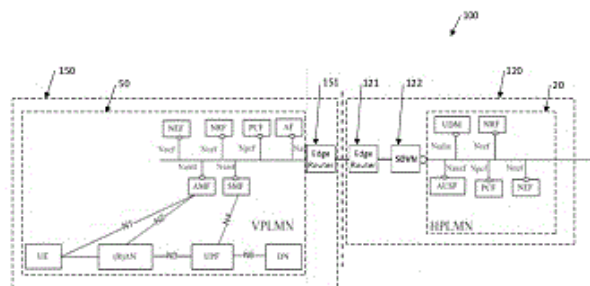
72: BARTOLOMÉ RODRIGO, MARIA CRUZ,
PUENTE PESTAÑA, MIGUEL ANGEL

33: US 31: 62/545,038 32: 2017-08-14

54: A METHOD OF EXECUTING A SERVICE FOR A SERVICE CONSUMER, AS WELL AS A CORRESPONDING NETWORK NODE AND A COMPUTER PROGRAM PRODUCT

00: -

A method of executing a service for a service consumer, said service consumer being registered in a home telecommunication network and currently residing in a visited telecommunication network, said method comprising the steps of retrieving a list of available services within the home telecommunication network that said service consumer is allowed to access, wherein said SDVN function and said home NRF both reside in said home telecommunication network, receiving a service operation message requesting an operation execution within a particular service for said service consumer in said visited telecommunication network, determining that said home network is able to provide for said requested particular service based on said retrieved list of available service, and selecting one or more service instances for executing said operation within said particular service for said service consumer.



21: 2020/00346. 22: 17/01/2020. 43: 2021/06/03

51: A61K; A61Q

71: UNILEVER PLC

72: DUTTA, MAITREYEE, NAIR, NIRMALA SANTOSH, RAJKUMAR, SAVITHA

33: EP 31: 17185152.0 32: 2017-08-07

54: A PERSONAL CARE COMPOSITION

00: -

The present invention relates to a personal care composition comprising a combination of 1-piperidinepropionic acid and pyridinecarboxamide. The composition provides synergistic skin lightening.

51: H04W

71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED

72: KAWASAKI, YUDAI, SUGAWARA, YASUO, ARAMOTO, MASAFUMI, TAKAKURA, TSUYOSHI

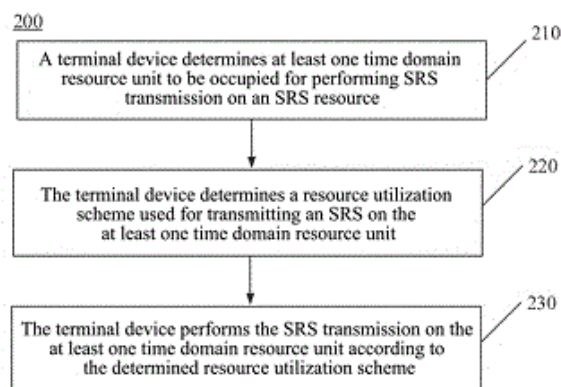
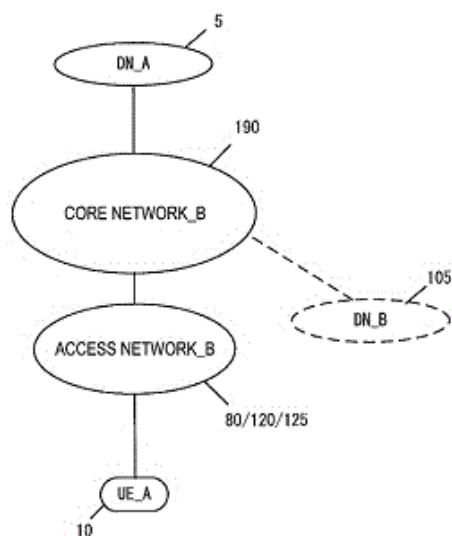
33: JP 31: 2017-119517 32: 2017-06-19

54: USER EQUIPMENT, COMMUNICATION CONTROL METHOD OF USER EQUIPMENT, CORE NETWORK DEVICE, COMMUNICATION CONTROL METHOD OF CORE NETWORK, SMF, AND COMMUNICATION CONTROL METHOD OF SMF

00: -

A terminal apparatus or a device in a core network exchanges capability information for each function in a registration procedure or a PDU session establishment procedure, and in user data communication additional information is added into an uplink packet to implement terminal apparatus-initiated RQoS control, and additional information is added into a downlink packet to implement network device-initiated RQoS control. A dedicated control message and information for an authentication and/or authorization function by a DN are defined to implement the authentication and/or authorization function by the DN. Furthermore, the terminal apparatus and the device in the core network have a timer or a control process for each network slice to implement a management process such as congestion management for each network slice. This provides a communication control method in order to implement the terminal apparatus-initiated or network-initiated RQoS control, implement the authentication and/or authorization function by the DN, and implement the management process such as congestion management for each network slice.

21: 2020/00348. 22: 17/01/2020. 43: 2021/06/03



21: 2020/00379. 22: 20/01/2020. 43: 2021/06/03

51: H04W; H04L

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: CHEN, WENHONG

54: WIRELESS COMMUNICATION METHOD AND DEVICE

00: -

Embodiments of the present application provide a wireless communication method and device. A terminal device may flexibly select a resource utilization mode used for transmitting an SRS on a time domain resource unit, so that the function of the time domain resource unit can be implemented as needed, and therefore, reasonable SRS transmission can be implemented to improve communication performance. The method comprises: a terminal device determines at least one time domain resource unit occupied by SRS transmission over an SRS resource; the terminal device determines a resource utilization mode used for transmitting the SRS on the at least one time domain resource unit; the terminal device performs, according to the determined resource utilization mode, the SRS transmission on the at least one time domain resource unit.

21: 2020/00381. 22: 20/01/2020. 43: 2021/06/03

51: C07D

71: ARCHER DANIELS MIDLAND COMPANY

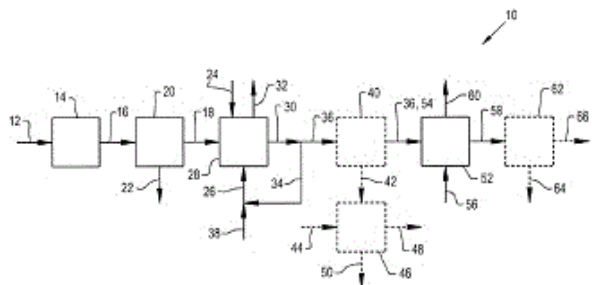
72: ANKLAM, PAM, HOFFMAN, WILLIAM CHRIS,
HOWARD, STEPHEN J, SANBORN, ALEXANDRA,
SCHULTZ, MITCHELL, SOPER, JOHN G

33: US 31: 62/523,540 32: 2017-06-22

54: PROCESS FOR MAKING ESTERS OF 2,5- FURANDICARBOXYLIC ACID

00: -

The present invention relates to a process for making the esters of 2,5-furandicarboxylic acid, and particularly the dimethyl, diethyl or dipropyl esters of FDCA for use as monomers in the production of polyesters and other types of polymers with biobased content, comprising: reacting an aqueous feed comprising glucaric acid with a high boiling first alcohol in the presence of an acid catalyst and with removing water during the reaction, to form a first product mixture comprising a first ester of FDCA and the high boiling first alcohol; removing unreacted high boiling first alcohol from the first product mixture; combining the first ester of FDCA and the high boiling first alcohol with a lower boiling second alcohol selected from the group consisting of methanol, ethanol, isopropanol and n-propanol; transesterifying the first ester with the lower boiling second alcohol to form a second product mixture comprising a second ester of FDCA with the lower boiling second alcohol; and recovering the second ester of FDCA with the lower boiling second alcohol.



21: 2020/00383. 22: 20/01/2020. 43: 2021/06/03
51: E21B

71: MINCON INTERNATIONAL LIMITED

72: PURCELL, JOSEPH, PURCELL, CIARAN

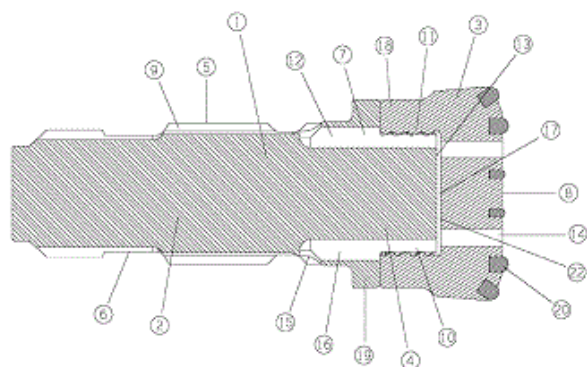
33: IE 31: S2017/0150 32: 2017-07-20

33: IE 31: S2018/0049 32: 2018-03-08

54: DRILL BIT WITH DETACHABLE BIT HEAD

00: -

The present invention relates to a drill bit assembly for fluid-operated percussion drill tools. The assembly comprises a percussion bit (2) comprising a bit head (3) detachably connected to an axially extending shank (4) and engagement means (5) formed on an external wall of the shank (4) engageable with complementary engagement means formed internally of a drive chuck (405) whereby rotational drive from the chuck may be transmitted to the shank (4). At least one flushing channel (12) extends between the external wall of the bit shank and a cutting face (13) of the bit head (3), to provide a fluid path for a flushing medium between the external wall of the bit shank and the cutting face of the bit head.



21: 2020/00410. 22: 21/01/2020. 43: 2021/06/03
51: B01D

71: UNILEVER PLC

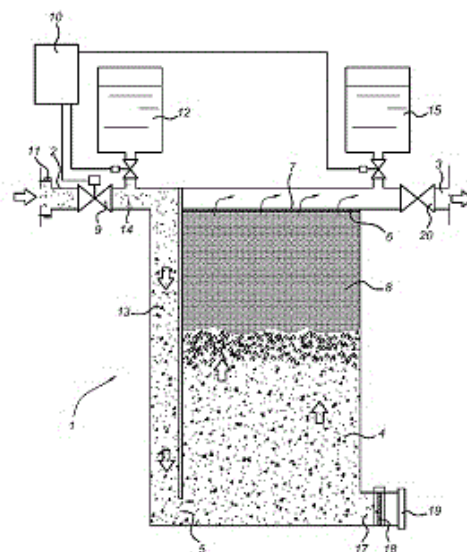
72: CHATTERJEE, DEBOSREE, RAJENDIRAN,
GANESAN, VADHYAR, JAYASHREE
ANANTHARAM, VENKATESH, DEEPAK

33: EP 31: 17186246.9 32: 2017-08-15

54: APPARATUS AND METHOD FOR FILTERING AQUEOUS LIQUID

00: -

The invention relates to an apparatus for the filtration of aqueous liquid that is capable of effectively removing suspended particles from aqueous liquid during a prolonged period of time without clogging of the particulate filter media and associated pressure build-up. This filtration apparatus comprises: • a filtration chamber comprising an inlet opening that is located near the bottom of the filtration chamber, and an outlet opening that is located near the top of the filtration chamber; • a screen covering the outlet opening of the filtration chamber; • a first dosing unit that is located upstream of the filtration chamber adapted to release water-soluble components into the stream of aqueous liquid that flows from the inlet to the filtration chamber; • a particulate filter media that partially fills the interior of the filtration chamber; • a flow regulator that regulates the flow rate of aqueous liquid through the filtration chamber and that can operate in a high flow rate mode or a reduced flow rate mode; • a timer that controls the flow regulator; wherein the timer is programmed to alternately switch the flow regulator from the high flow rate mode to the reduced flow rate mode.



21: 2020/00413. 22: 21/01/2020. 43: 2021/06/03
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

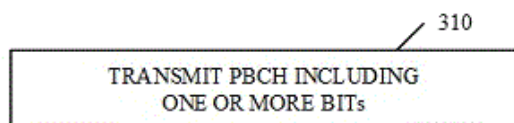
72: WANG, JIANFENG, LIN, ZHIPENG

33: CN 31: PCT/CN2017/097282 32: 2017-08-11

**54: METHOD AND DEVICE FOR
SYNCHRONIZATION**

00: -

A method for synchronization is a wireless system is disclosed. In the method, at least one bit is included in a physical broadcast channel (PBCH), wherein one or more bits of the at least one bit indicates a location of a slot group comprising at least one synchronization signal block in a synchronization signal burst set and/or additional system information.



21: 2020/00435. 22: 22/01/2020. 43: 2021/06/03
51: B22D

71: VESUVIUS USA CORPORATION

72: MOHANTY, BEDA, SCHANER, DANIEL T,
RICHARDSON, JR. ROBERT L

33: US 31: 62/551,509 32: 2017-08-29

54: REFRACTORY LINING STRUCTURE

00: -

A refractory lining structure (18) for a metallurgical vessel is characterized by at least one elongated expansion joint (50) formed in and extending through the surface of the working lining in a substantially vertical direction. The elongated expansion joint accommodates thermal expansion of the working lining (20) in a metallurgical vessel such as, for example, a tundish during preheating for a continuous casting operation. The elongated expansion joint decreases crack formation, delamination, and spalling of the working lining from underlying back-up linings and/or safety linings in metallurgical vessels during preheating and use, while still facilitating metal skull removal after the completion of metallurgical operations.

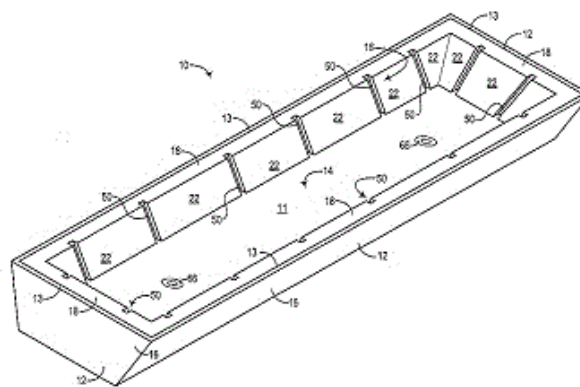


FIG. 1A

21: 2020/00454. 22: 23/01/2020. 43: 2021/06/03

51: H02G

71: CMP PRODUCTS LIMITED

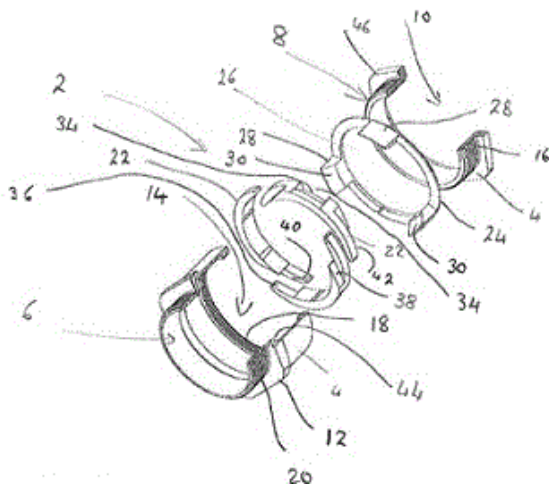
72: WEATHERBURN, MARK, FRIZZELL, LEE

33: EP 31: 17188026.3 32: 2017-08-25

54: CABLE CLAMPING APPARATUS

00: -

A cable clamping apparatus (2) is disclosed. The apparatus comprises a housing (4) defining a first aperture (6) for a cable, an actuator member (24), and clamping members (22). Movement of the clamping members relative to the actuator member in an axial direction of a cable extending through the apparatus causes sliding movement of the clamping members relative to the actuator member between a first condition, in which the cable can move in the axial direction relative to the clamping members, and a one second condition, in which the cable is clamped between the clamping members. A plurality of the clamping members overlap in the axial direction.



21: 2020/00456. 22: 23/01/2020. 43: 2021/06/03
51: H04W

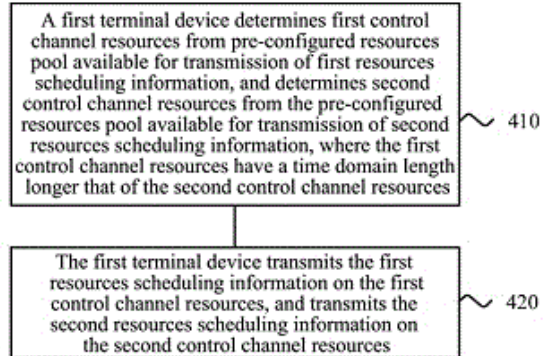
71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.
72: TANG, HAI

**54: METHOD FOR DEVICE-TO-DEVICE
COMMUNICATION, TERMINAL DEVICE, AND
NETWORK DEVICE**

00: -

The present application discloses a method for D2D communication, a terminal device, and a network device. The method includes: a first terminal device determining first control channel resources from pre-configured resources pool available for transmission of first resources scheduling information, and determining second control channel resources from the pre-configured resources pool available for transmission of second resources scheduling information, where the first control channel resources have a time domain length longer than that of the second control channel resources; and the first terminal device transmitting the first resources scheduling information on the first control channel resources, and transmitting the second resources scheduling information on the second control channel resources, where the first resources scheduling information and the second resources scheduling information are respectively used by a second terminal device and a third terminal device to determine data channel resources for the first terminal device. Therefore, the first terminal device transmits corresponding resources scheduling information in the pre-configured resources pool such that terminal devices of new and old releases

can jointly perform data transmission in a communication system and interference therebetween can be reduced.



21: 2020/00459. 22: 23/01/2020. 43: 2021/06/02
51: H04W

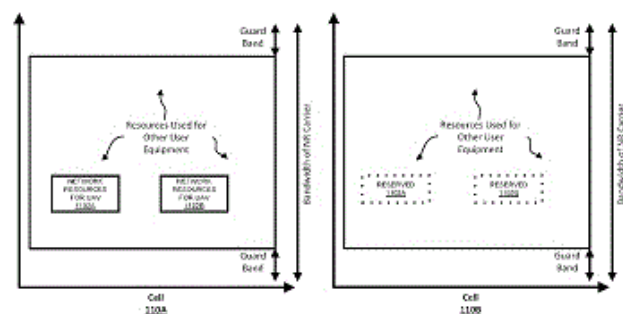
71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

72: TAKÁCS, ATTILA, MANGHIRMALANI, RAVI,
MAHKONEN, HEIKKI, WANG, YI-PIN ERIC, LIN,
XINGQIN

**54: OPTIMIZATION OF RADIO RESOURCE
ALLOCATION BASED ON UNMANNED AERIAL
VEHICLE FLIGHT PATH INFORMATION**

00: -

A method for managing a wireless connection of an Unmanned Aerial Vehicle (UAV) is described herein. In one embodiment, the method comprises receiving flight information describing a flight path for the UAV; determining a set of network resources for the UAV based on the flight information; and reserving the set of network resources by a first network cell and a second network cell of a wireless network based on the flight information.



21: 2020/00460. 22: 23/01/2020. 43: 2021/06/14
51: A01H; C12Q

71: DÜMMEN GROUP B.V.

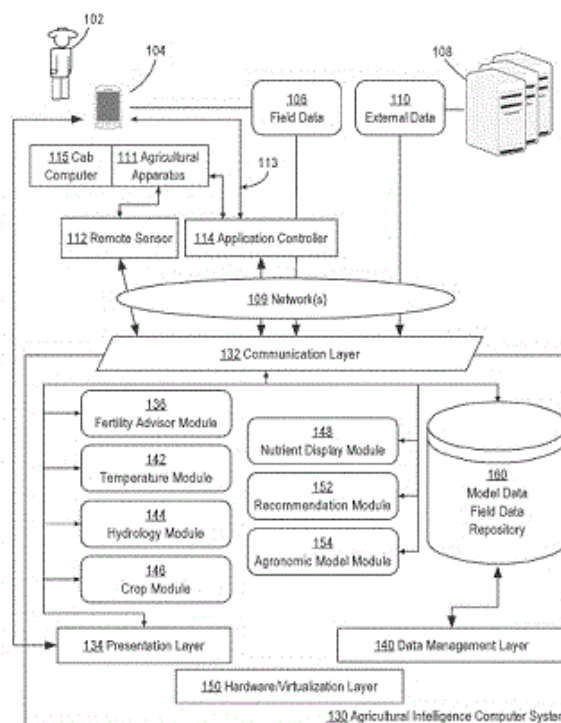
72: KAMSTRA, SILVAN ADELMAR, BÉRÉÑOS, CAMILLO

33: NL 31: 2019209 32: 2017-07-10

54: POWDERY MILDEW RESISTANT ROSE

00: -

The present invention relates to rose plants such as cut roses, garden roses and pot roses comprising at least two genes providing resistance to a pathogen causing powdery mildew. Specifically, the present invention relates to rose plants resistant to the powdery mildew causing pathogen *Podosphaera pannosa* also known as *Sphaerotheca pannosa* var. *rosae*. The present invention further relates to methods for selecting the present powdery mildew rose plants. The present rose plants are characterized by comprising in their nuclear genome at least one nucleotide sequence represented by SEQ ID No. 1 and at least one nucleotide sequence represented by SEQ ID No. 2 wherein the combined presence of SEQ ID No. 1 and SEQ ID No. 2 provides powdery mildew resistance.



21: 2020/00477. 22: 24/01/2020. 43: 2021/06/03
51: A01C

71: THE CLIMATE CORPORATION

72: GATES, JOHN, DE GRYZE, STEVEN

33: US 31: 62/192,754 32: 2015-07-15

33: US 31: 14/842,321 32: 2015-09-01

54: GENERATING DIGITAL MODELS OF NUTRIENTS AVAILABLE TO A CROP OVER THE COURSE OF THE CROP'S DEVELOPMENT BASED ON WEATHER AND SOIL DATA

00: -

A computer system and method for monitoring operation of a field based on agricultural data. The system includes a database for storing the agricultural data; and a processing unit coupled to the database. The processing unit is configured to monitor operation of the field, store the agricultural data based on the monitoring, create a trial that potentially causes a correlation between different parameters or variables of the agricultural data, allocate data based on regions of the field created by the trial, analyze the trial to determine whether the trial causes a correlation for different regions of the field.

21: 2020/00491. 22: 24/01/2020. 43: 2021/06/02
51: C07K; A61K; A61P

71: SICHUAN HAISCO PHARMACEUTICAL CO., LTD.

72: HUANG, ZHENGANG, WANG, JIANMIN, WEI, YONGGANG, YAN, PANGKE, ZHENG, WEI, ZHANG, CHEN, HUANG, ANBANG, YE, FEI, HUANG, LONGBIN

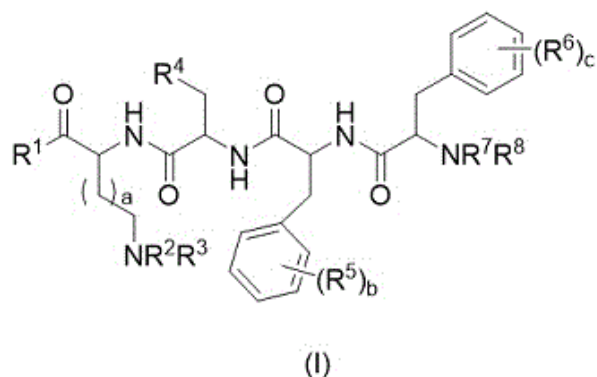
33: CN 31: 201810014939.1 32: 2018-01-11

33: CN 31: 201710598408.7 32: 2017-07-21

54: PEPTIDE AMIDE COMPOUNDS, PREPARATION METHOD THEREOF AND USE IN MEDICINE

00: -

The invention provides a peptide amide compound represented by the general formula (I), a preparation method thereof, and a medical application thereof. The compound has a novel structure, better biological activity, and better analgesic effect.



21: 2020/00492. 22: 24/01/2020. 43: 2021/06/02
51: A22B

71: JARVIS PRODUCTS CORPORATION

72: JONES, ARTHUR, JONES, TRENT

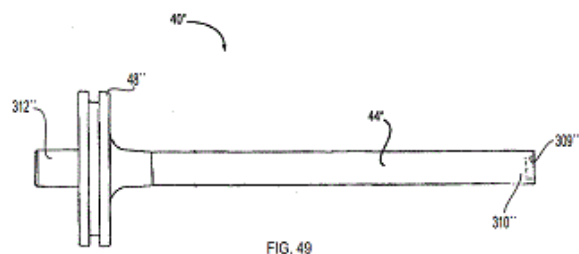
33: US 31: 62/545,718 32: 2017-08-15

33: US 31: 16/051,822 32: 2018-08-01

54: LIGHTWEIGHT STUNNING ROD

00: -

A pneumatic stunner for stunning an animal has a piston slideable within an inner chamber, and a stunning rod driven by the piston forward and rearward towards and away from the front end of the housing. The stunning rod has an elongated body having a longitudinal axis and a detachable hardened tip. The density of the material comprising the elongated body is less than the density of the material comprising the detachable hardened tip.



21: 2020/00508. 22: 23/01/2020. 43: 2021/06/03
51: G01N; G21F; H01J

71: CHRYSOS CORPORATION LIMITED

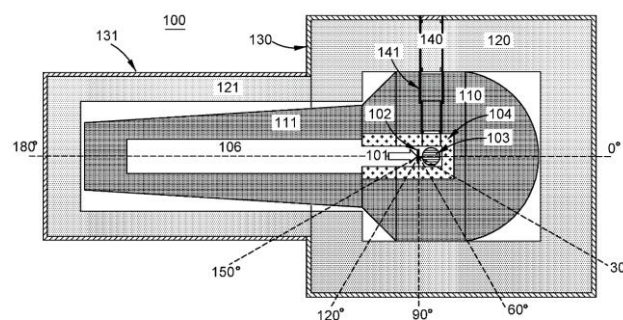
72: TICKNER, JAMES

54: A SHIELDED X-RAY RADIATION APPARATUS

00: -

A shielded X-ray radiation apparatus is provided comprising an X-ray source, an X-ray attenuation shield including an elongate cavity to house the X-

ray source and incorporating a region to accommodate a sample, a neutron attenuation shield, and a gamma attenuation shield. The neutron attenuation shield is situated adjacent to and substantially surrounds the X-ray attenuation shield and the gamma attenuation shield is adjacent to and substantially surrounds the neutron attenuation shield. In some embodiments a removable sample insertion means is provided to insert samples into the elongate cavity and which is composed of adjacent blocks of material, each respective block having a thickness and a composition which substantially matches the thickness and a composition of one of the X-ray attenuation, neutron attenuation and gamma-ray attenuation shields.



21: 2020/00546. 22: 27/01/2020. 43: 2021/06/03
51: B09C; A01N; C02F; C09K

71: AGROZONO, S.L.

72: VILLANUEVA DECODES, EMILIO JESÚS

54: METHOD FOR DISINFECTING SOILS OR OTHER AGRICULTURAL GROWING MEDIA

00: -

The invention relates to a method for disinfecting soils or other agricultural growing media, characterised by comprising the following steps: obtaining a soil or other agricultural growing medium at their field capacity; treating the soil or medium at the field capacity of the previous step with ozonated water, wherein the ozonated water is prepared in situ using ozone-production equipment connected to the water supply; allowing a period of time to pass after the treatment with ozone; and inoculating the disinfected soil or agricultural medium with at least one species of beneficial microorganism.

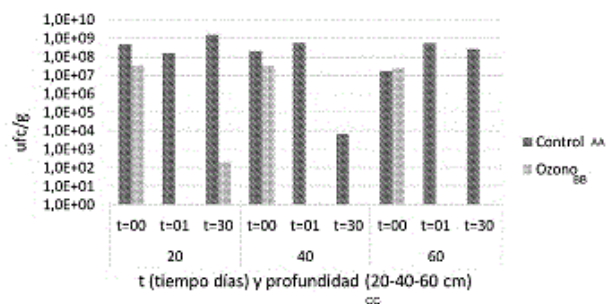


Fig. 4a

AA: Control
BB: Ozong
CC: t (time, days) and depth (20-40-60cm)

21: 2020/00547. 22: 27/01/2020. 43: 2021/06/03
51: A01K; A01N; B32B
71: KOPPERT B.V.
72: VAN HOUTEN, YVONNE MARIA, VEENMAN, AREND, HOOGERBRUGGE, HANS, BEVERIDGE, NICHOLAS GEORGE PETRUS, GROOT, THOMAS VOLKERT MARIE
33: NL 31: 2019261 32: 2017-07-17
33: EP 31: 17075012.9 32: 2017-07-16
54: SYSTEM FOR RELEASING BENEFICIAL MITES AND USES THEREOF

00: -

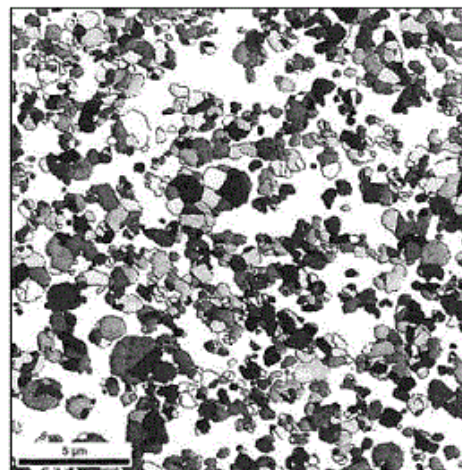
This invention relates to an improved system for releasing beneficial mites and the use of such a system. Mite species that can be used beneficially for human purposes may for example be employed in the control of pests, such as in the field of agriculture, including agricultural production systems for plant products, agricultural production systems for animal products, and animal husbandry, or in the field of storage of food products. The system of the invention may find use in any of these fields.

21: 2020/00550. 22: 27/01/2020. 43: 2021/06/03
51: B23B; C22C; E21B
71: ELEMENT SIX (UK) LIMITED
72: THAKARE, MANDAR
33: GB 31: 1711417.4 32: 2017-07-17
54: POLYCRYSTALLINE DIAMOND COMPOSITE COMPACT ELEMENTS AND METHODS OF MAKING AND USING SAME

00: -

A polycrystalline diamond (PCD) composite compact element has a body of polycrystalline diamond material and a cemented carbide substrate bonded to the body of polycrystalline material along an interface. The cemented carbide substrate has tungsten carbide particles bonded together by a

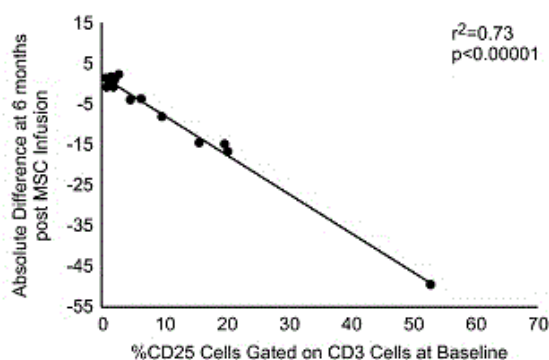
binder material, the binder material including an alloy of Co, Ni and Cr. The tungsten carbide particles form at least 70 weight percent and at most 95 weight percent of the substrate and the binder material has between about 60 to 90 wt.% Ni, between about 10 to 40 wt.% Co, and about 0.25 to 1.0 wt% Cr₃C₂.



21: 2020/00574. 22: 29/01/2020. 43: 2021/06/03
51: A61K
71: LONGEVERON LLC
72: HARE, JOSHUA M, LANDIN, ANA MARIE
33: US 31: 62/291,350 32: 2016-02-04
54: MESENCHYMAL STEM CELLS AS VACCINE ADJUVANTS AND METHODS FOR USING THE SAME

00: -

The present invention provides a method of enhancing an immune response to a vaccine by administering a vaccine and a population of isolated allogeneic human mesenchymal stem cells. The present invention also provides kits comprising a vaccine in a first container and a population of isolated allogeneic human mesenchymal stem cells in a second container.



21: 2020/00586. 22: 29/01/2020. 43: 2021/05/14

51: A61K; C07D; A61P

71: GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, BIOVERSYS AG

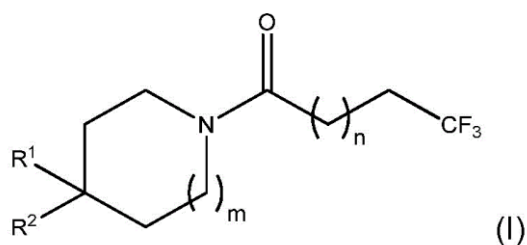
72: PORRAS DE FRANCISCO, Esther, REMUIÑAN-BLANCO, Modesto Jesús, BOUROTTE, Marilyne, DEPRez, Benoit, WILLAND, Nicolas

33: EP 31: 17382570.4 32: 2017-08-16

54: NOVEL COMPOUNDS

00: -

The invention relates to compounds of Formula (I) and their use in therapy, for example in the treatment of mycobacterial infections or in the treatment of diseases caused by mycobacterium, such as tuberculosis.



21: 2020/00603. 22: 29/01/2020. 43: 2021/06/02

51: A47J; B01F; B23Q; F16P

71: CAPBRAN HOLDINGS, LLC

72: SAPIRE, COLIN

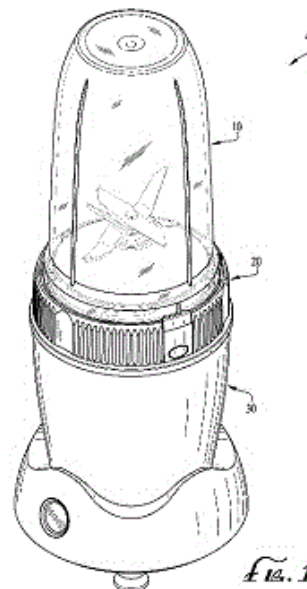
33: US 31: 62/527,945 32: 2017-06-30

54: MIXER WITH SAFETY MECHANISMS

00: -

A blender for processing comestible matter includes a base with a motor, a blade assembly, and a container. The blender further comprises a first safety mechanism and a second safety mechanism. The first safety mechanism functions to ensure that the container is securely attached to the blade

assembly before the blade assembly can be mounted to the base. The second safety mechanism functions to ensure the motor in the base can only be powered on when the container and the blade assembly are securely mounted to the base. The blender is operable by affixing the container to the blade assembly, and then the assembly to the base, such that both safety mechanisms are released to permit the motor to be activated.



21: 2020/00604. 22: 29/01/2020. 43: 2021/06/02

51: E05D

71: KLEIN IBÉRICA, S.A.U.

72: TÀRREGA KLEIN, MARC

33: ES 31: U201730930 32: 2017-08-02

54: DEVICE FOR SECURING PANES OF GLASS FOR SLIDING DOORS

00: -

The invention relates to a device for securing panes of glass for sliding doors, consisting of: a rear plate (3) supporting a rolling element (2) that is configured to allow the securing device (1) to move along a profile (F) of a sliding door (P); and a first front plate (4) and a second front plate (5), both of which face the rear plate (3) and can be coupled to same, defining an intermediate mortise (7) for securing a pane of glass (H). The securing device (1) also comprises a third front plate (6) which faces the rear plate (3) and can be coupled to same, said third front plate being arranged between the first front plate (4) and the second front plate (5).

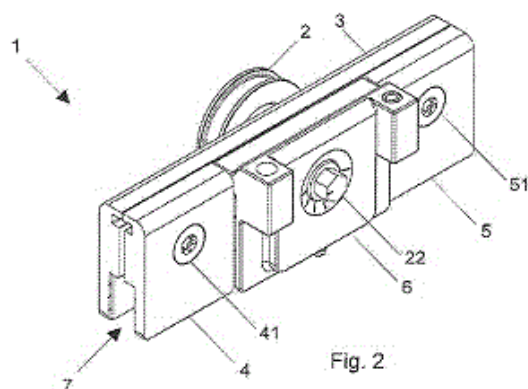


Fig. 2

21: 2020/00606. 22: 29/01/2020. 43: 2021/06/02
51: A01N; A61K; A01P

71: UNILEVER PLC

72: BARNE, SAMEER KESHAV, SAJI, MAYA TREESA

33: EP 31: 17187899.4 32: 2017-08-25

54: AN ANTIMICROBIAL COMPOSITION

00: -

The present invention relates to an antimicrobial composition at the pH of the skin. Particularly, it relates to an antimicrobial composition comprising water soluble vinyl polymer, a carboxylic acid having pKa greater than 4.5; and an anionic surfactant, wherein the composition has pH in the range 4.5 to 6.5. The compositions provides synergistic antimicrobial effect in relatively shorter contact time. The invention further relates to a method of disinfecting a surface using the composition.

21: 2020/00609. 22: 29/01/2020. 43: 2021/06/02
51: A61K

71: BDR PHARMACEUTICALS INTERNATIONAL PRIVATE LIMITED

72: DHARMESH MAHENDRABHAI, SHAH, ARAVIND MANAPPA, BADIGER, RAKSHIT KETANBHAI, CHOKSI, BHAVESH NAGINBHAI, PATEL, PIYUSHA SHARAD, SALUNKHE, NIRAJ RAMNIVEDAN, SONI

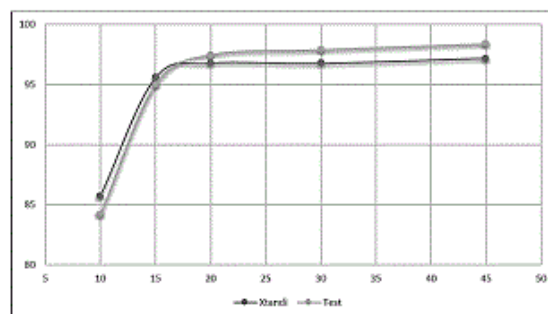
33: IN 31: 201721023465 32: 2017-07-04

54: NOVEL COMPOSITION OF ENZALUTAMIDE ORAL DOSAGE FORM AND METHOD OF MANUFACTURING THEREOF

00: -

The present invention relates to novel composition of oral dosage forms of enzalutamide with pharmaceutically acceptable excipients and method

of manufacturing thereof. The invention provides economical and advanced dosage form.



21: 2020/00611. 22: 2020/01/29. 43: 2021/05/24
51: F23C; F23D

71: General Electric Technology GmbH

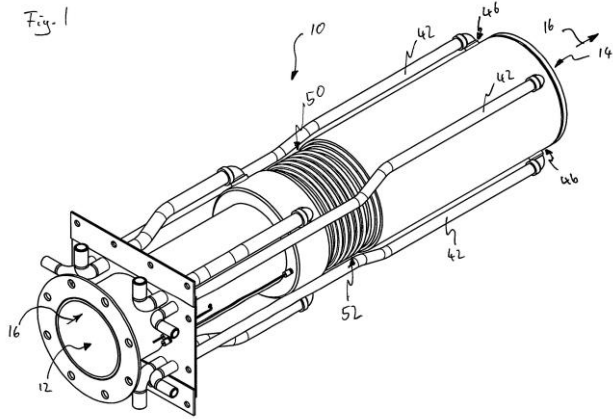
72: SAPANARO, Michael, BAILEY, William P., WAILGUM, Jason Jeremy, HALLSTROM, Joseph

33: EP(CH) 31: 17184058.0 32: 2017-07-31

54: COAL NOZZLE WITH A FLOW CONSTRICTION

00: -

The invention concerns a pulverized solid fuel, in particular coal, nozzle (10) comprising an inlet opening (12) for receiving a stream of coal/air mixture (16) and an outlet opening (14) for discharging said stream (16) into a burner. The inlet opening (12) and the outlet opening (14) are fluidically connected by a flow section (18), and a flow cross section (20) of the flow section (18) varies along a flow direction (22) of the stream of coal/air mixture (16). The flow section (18) comprises a flow constriction (24) with a, preferentially globally, minimal flow cross section (26). The flow constriction (24) is fluidically located between the inlet opening (12) and the outlet opening (14) and the flow section (18) has a flow cross section (20) that, in particular continuously, increases from the flow constriction (24) to the outlet opening (14).



21: 2020/00629. 22: 30/01/2020. 43: 2021/07/01
51: C04B

71: CHRYSO

72: ARCHAMBAULT, Michael

33: FR 31: 17 57274 32: 2017-07-31

54: METHOD FOR PREPARING A SURFACE COURSE AT THE SURFACE OF A HYDRAULIC COMPOSITION

00: -

The invention relates to a method of forming a wear layer on at least one part of a surface of a hydraulic binder-based composition to be treated comprising the steps of: a) applying a composition comprising: - at least one hydraulic binder, and - at least one aggregate whose Los Angeles coefficient LA is less than or equal to 50, on at least one part of a surface of a composition based on fresh hydraulic binder, b) floating the at least one part of the surface on which the composition has been applied, then c) applying a surface-deactivating composition to the at least one part of the surface to which the composition has been applied, and d) curing the fresh hydraulic binder composition, and then e) removing the uncured hydraulic binder layer on the surface, and the hydraulic binder-based composition of which at least one part of a surface comprises a wear layer. This wear layer has improved durability.

21: 2020/00658. 22: 2020/01/31. 43: 2021/06/03
51: F16B

71: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD

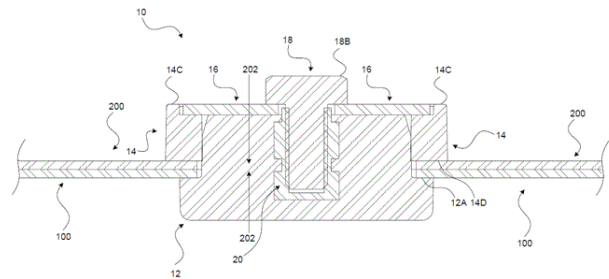
72: VOSS, Michael

33: ZA 31: 2019/00284 32: 2019-01-16

54: A FASTENING DEVICE

00: -

A fastening device for fastening at least two panels or flanges to each other is disclosed. The device comprises a male member, a female member and a washer. The male member is inserted into and at least partially through aligned slots in the panels or flanges. The male member includes or houses a first securing component. The female member defines an opening generally complementally shaped to the projection of the male member. The male member and the female member are configured to receive the at least two panels or flanges between them when the projection is received in the opening. The washer mates with the female member such that displacement of the washer relative to the female member towards the male member is substantially prevented. The device further comprises a second securing component configured to mate with the first securing component and to secure the washer against the female member.



21: 2020/00663. 22: 31/01/2020. 43: 2021/06/02
51: F01C; F01K

71: I.V.A.R. S.P.A.

72: OLIVOTTI, SERGIO

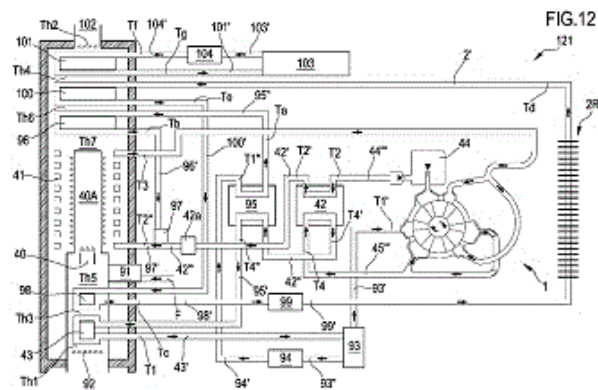
33: IT 31: 102017000074290 32: 2017-07-03

54: HEAT MACHINE CONFIGURED FOR REALIZING HEAT CYCLES AND METHOD FOR REALIZING HEAT CYCLES BY MEANS OF SUCH HEAT MACHINE

00: -

A heat machine (121) for realizing a heat cycle, the heat machine operating with a thermal fluid and comprising a drive unit (1) provided with a first rotor (4) and a second rotor (5), each having three pistons (7a, 7b, 7c; 9a, 9b, 9c) that are slidable in an annular chamber (12), wherein the pistons delimit six variable-volume chambers (13', 13'', 13'''; 14', 14'', 14'''). The drive unit comprises a transmission configured to convert the rotary motion with respective first and second periodically variable

angular velocities (ω_1 , ω_2) of said first and second rotor (4, 5), offset from each other, into a rotary motion at a constant angular velocity. The heat machine further comprises a compensation tank (44), configured to accumulate the compressed thermal fluid from the drive unit, a regenerator (42) configured to preheat the thermal fluid, a heater (41) configured to superheat the thermal fluid circulating in the serpentine coil, a burner (40), configured to supply the necessary thermal energy to the heater (41); wherein the regenerator (42), in fluid communication with the drive unit (1), is further configured to acquire energy-heat from the exhausted thermal fluid and use it to preheat the thermal fluid to be sent to the heater (41). The invention further relates to a method for realizing a heat cycle by means of said heat machine.



21: 2020/00679. 22: 2020/01/31. 43: 2021/06/23

51: H01Q

71: SAAB AB

72: HOLTER, Henrik

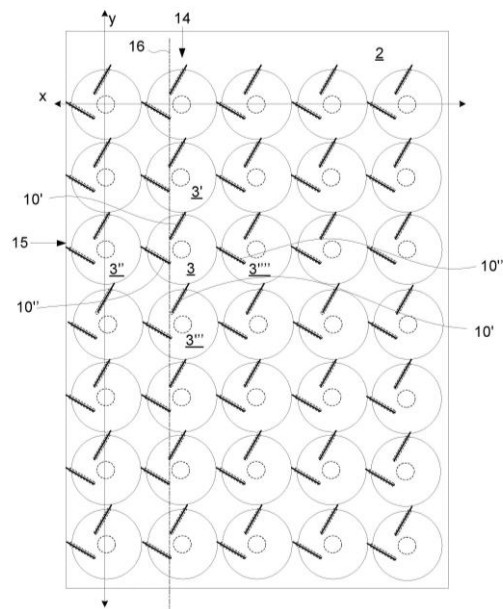
33: SE 31: 1750891-2 32: 2017-07-06

54: An electrically controlled broadband group antenna

00: -

A broadband group antenna, comprising a plurality of antenna elements (3) and an earth plane element (2), wherein the antenna elements (3) are arranged in a common plane on top of the earth plane element (2) and connected to a microwave transceiver unit (11) via conductors provided in channels that extend through the earth plane element (2) in a direction perpendicular to a main extension plane of the earth plane element (2), the antenna elements (3) are arranged in a matrix pattern comprising first rows (14) extending in a first direction (y) and second

rows (15) extending in a second direction (x) perpendicular to said first direction (y), wherein the antenna elements (3) are in alignment with each other in said first rows (14) and in said second rows (15). First and second channels (13) via which the first and second conductors (10', 10'') of each of said plurality of antenna elements (3) of said one first row (14) are configured to be connected to a microwave transceiver unit (11) are in alignment along a line parallel with said first direction (y).



21: 2020/00694. 22: 03/02/2020. 43: 2021/07/06

51: F41A; F41F

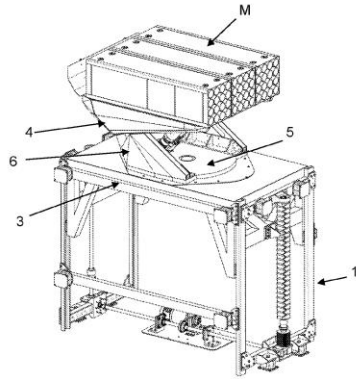
71: MAC JEE INDUSTRIA DE DEFESA LTDA.

72: JEANNOT, Simon Pierre

54: ROCKET LAUNCH MODULE AND ROCKET LAUNCH VEHICLE

00: -

The present invention relates to a rocket launch module that comprises a base frame (1) comprising at least one rail (2a); a sliding bench (3) configured to slide substantially vertically on said rail (2a) when actuated by the at least one electric linear actuator (11), and a guide device (4) comprising a rotatable base (5) on which is mounted a pivotable body (6) supporting a rocket support portion (7). The sliding bench (3) comprises a platform (8) configured to receive the rotatable base (5) of the guide device (4).



21: 2020/00702. 22: 03/02/2020. 43: 2021/06/02
51: H04W; H04B
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

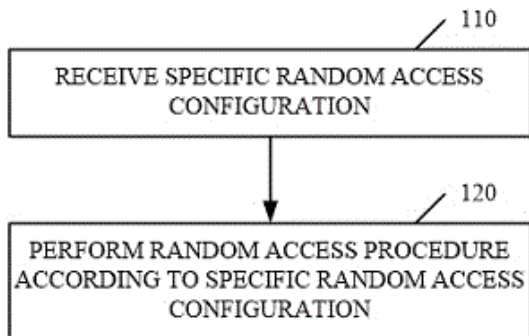
72: FAN, RUI, DA SILVA, ICARO L. J, MÄÄTTÄNEN, HELKA-LIINA

33: CN 31: PCT/CN2017/098093 32: 2017-08-18

54: METHOD AND DEVICE FOR RANDOM ACCESS FOR BEAM FAILURE RECOVERY

00: -

A method for random access for beam failure recovery is disclosed. In the method, specific random access configuration for the beam failure recovery is received. In the event of a beam failure, a random access procedure is performed according to the specific random access configuration.



21: 2020/00703. 22: 03/02/2020. 43: 2021/06/02
51: H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

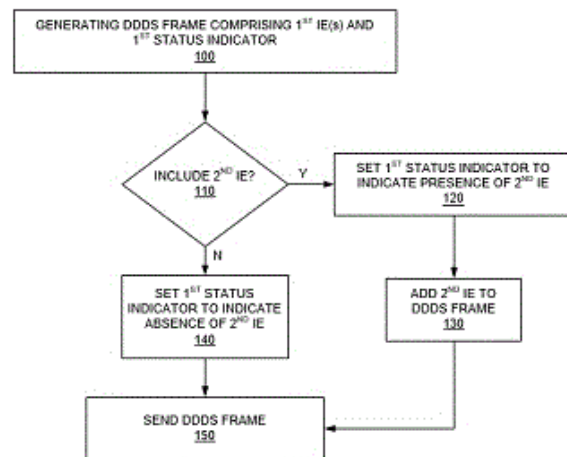
72: SHI, NIANSHAN, VESELY, ALEXANDER

33: US 31: 62/563,852 32: 2017-09-27

54: METHOD TO MANAGE DOWNLINK DATA DELIVERY STATUS

00: -

The generation and use of a modified DDDS, suitable for RLC AM and RLC UM, is disclosed herein. The modified DDDS optionally includes an IE specifying a highest sequence number f of a packet successfully delivered to a wireless terminal. Node B, which is in wireless communication with a wireless terminal, sends the modified DDDS to Node A, where Node A sends DL data packets to Node B for transmission to the wireless terminal responsive to the received modified DDDS.



21: 2020/00722. 22: 04/02/2020. 43: 2021/06/02
51: B65H; F04C

71: MACNAUGHT PTY LTD

72: UCCELLANI, MARCO, SINGH, PRABHJOT

33: AU 31: 2017903360 32: 2017-08-21

54: REEL BRAKING SYSTEM

00: -

A braking system for a hose or cable reel comprising a housing configured to fit inside a drum of the reel and to rotate with the drum during use, and a gerotor comprising inner and outer gears disposed inside the housing, wherein the inner gear is attachable to a shaft of the reel and the outer gear is configured to rotate relative to the inner gear with the housing during use thereby causing hydraulic fluid to be pumped through the gerotor and impede rotation of the drum.

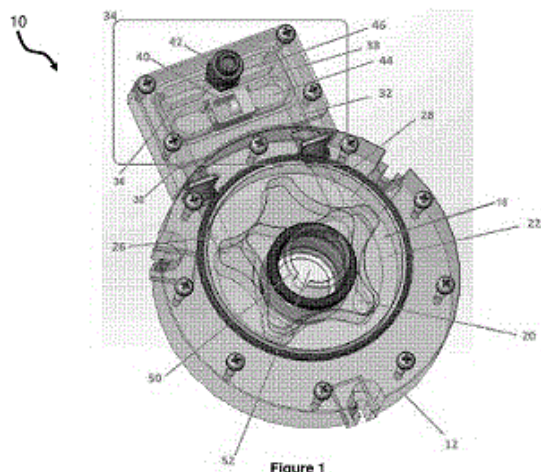


Figure 1

21: 2020/00723. 22: 04/02/2020. 43: 2021/06/14

51: C01B

71: PRAYON TECHNOLOGIES

72: WAVREILLE, ALEXANDRE, LEDERER, LIVIO (DECEASED), NINANE, LÉON

33: BE 31: BE2017/5554 32: 2017-08-11

54: METHOD FOR ETCHING A PHOSPHATE SOURCE USING ACID

00: -

A method for etching a phosphate source with or without calcium using sulphuric acid for a predetermined period of time of between 20 and 180 minutes under conditions whereby the sulphate molar ratio from the sulphuric acid as well as optionally the phosphate source with calcium present in the phosphate source is between 0.6 and 0.8, and the content of P₂O₅ in the etching tank is less than 6%.

21: 2020/00724. 22: 04/02/2020. 43: 2021/06/14

51: H04L

71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA

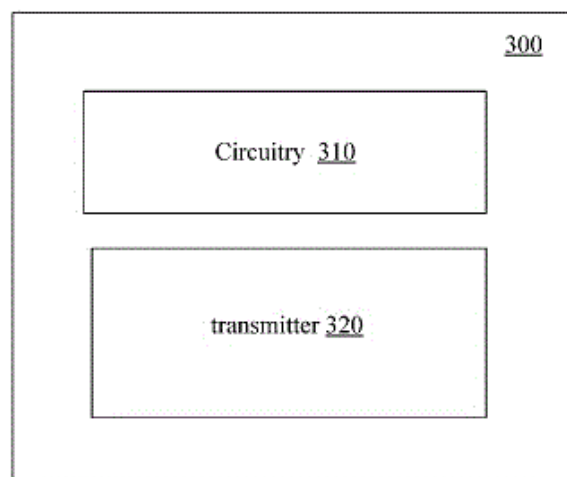
72: WANG, LILEI, SUZUKI, HIDETOSHI, TAKATA, TOMOHUMI, MAKI, SHOTARO

54: USER EQUIPMENT, BASE STATION AND WIRELESS COMMUNICATION METHOD

00: -

Provided are a user equipment, base station and wireless communication methods related to uplink control information mapping in physical uplink resources in NR (New Radio access technology). A

user equipment comprises: circuitry operative to map, in physical resource blocks (PRBs) for Physical Uplink Shared Channel (PUSCH), Uplink Control Information (UCI) to one or more available resource elements according to their distances with resource elements where reference signals are mapped in one or more of time domain, frequency domain and spatial domain; and a transmitter operative to transmit the UCI and the reference signals in PUSCH on the PRBs to a base station.



21: 2020/00725. 22: 04/02/2020. 43: 2021/06/14

51: A61K; A23L; A61P

71: AXCELLA HEALTH INC.

72: COMB, WILLIAM, CARROLL, SEAN, AFEYAN, RAFFI, HAMILL, MICHAEL

33: US 31: 62/545,362 32: 2017-08-14

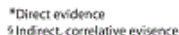
33: US 31: 62/697,772 32: 2018-07-13

33: US 31: 62/614,214 32: 2018-01-05

54: AMINO ACID COMPOSITIONS FOR THE TREATMENT OF LIVER DISEASE

00: -

Disclosed are compositions comprising branched chain amino acids, urea cycle amino acids and essential amino acids for use in treating or preventing liver diseases and disorders with hyperammonemia or muscle wasting in a subject.



51: G06Q: G06F

72: JONES, MARIA FRANCISCA, JONES,
ALEXANDER

54: METHOD AND APPARATUS TO TRANSFER DATA FROM A FIRST COMPUTER STATE TO A DIFFERENT COMPUTER STATE

A method to transfer data from a first computer program state when an program is generating a display on a user interface, the method comprising executing an interface object to display a representation of an interface object overlaid on a region of the display generated by the program; receive a user input to select data displayed on the display generated by the program; load the selected data into a data store of the interface object; receive a user transition input to cause the program to transition to generate a different display or to execute a different program to generate a different display, the different display representing a different computer program state; maintain the representation of the interface object overlaid on the different display; receive a user unloading input to select to unload at least some of the stored data for use in the different computer state; and unload the data as an input to the program displaying the different display in the different computer state.



51: G06Q: G06F

72: JONES, MARIA FRANCISCA

54: EVENT BASED DEFERRED SEARCH METHOD AND SYSTEM

A method and system for performing deferred searching comprising receiving an event input identifying event data for an event on an event date in the future from a user at a user interface, receiving a query input from the user at the user interface, processing the query input using the event data to generate a query using a processor, transmitting the query in dependence upon the event data, and receiving search results responsive to the transmitted query.



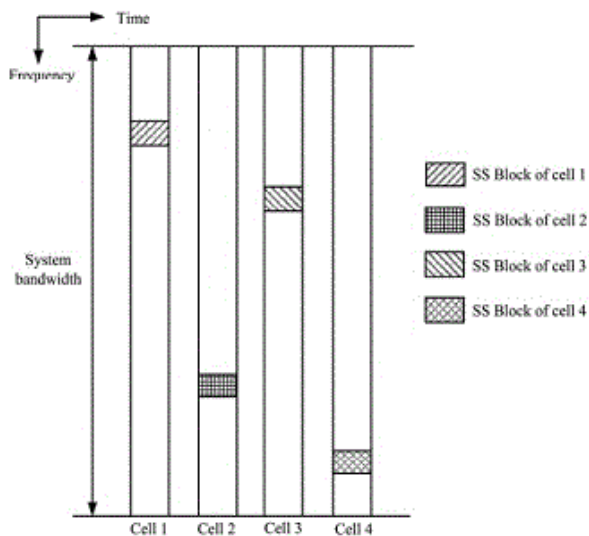
51: H04W

72: ZHANG, ZHI

54: DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE

00: -

Disclosed in the present application are a data transmission method, a terminal device, and a network device. The method comprises: the terminal device determines a first bandwidth portion and a second bandwidth portion; the terminal device uses the first bandwidth portion for data transmission and radio resource management (RRM) measurement on a specific time domain resource, and uses the second bandwidth portion for the data transmission on other time domain resources other than the specific time domain resource. Since the bandwidth portion used for data transmission and RRM measurement is different from the bandwidth portion only used for data transmission, the terminal device can efficiently perform data transmission in corresponding bandwidth portion, and meanwhile the requirements of RRM measurement are satisfied.



21: 2020/00767. 22: 05/02/2020. 43: 2021/06/03

51: H04L

71: NTT DOCOMO, INC.

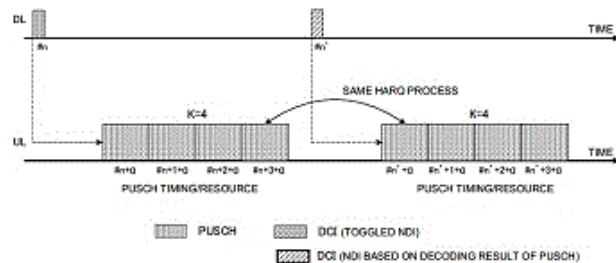
72: TAKEDA, KAZUKI, NAGATA, SATOSHI, WANG, LIHUI, HOU, XIAOLIN

54: USER TERMINAL AND RADIO COMMUNICATION METHOD

00: -

Repeated transmission of a data signal is appropriately controlled. A user terminal according to the present invention includes: a transmission

section that repeatedly transmits an Uplink (UL) data signal a given number of times; and a control section that controls repeated transmission of the UL data signal based on a Downlink (DL) signal generated based on a decoding result of the UL data signal.



21: 2020/00769. 22: 05/02/2020. 43: 2021/06/03

51: A01G

71: ELEMENTAL ENGINEERING AG

72: SAEED, OSMAN

33: EP 31: 17184984.7 32: 2017-08-04

54: SUBTERRANEAN IRRIGATION SYSTEM

00: -

A subterranean irrigation system (100) has a plurality of fluid conduit (130) for applying a liquid from a source to an area of ground, to which said liquid is to be applied while avoiding interference with the above-ground use of such area, wherein the fluid conduits (130) are connected (140; 500) relative to one another and wherein the plurality of fluid conduits (130) comprise a plurality of outlets to effect the distribution of the liquid to the ground area. When the fluid conduits (130) are positioned on the longitudinal edge of a plate-shaped conduit support structure (114) a resistant structure can be provided as natural foundation.

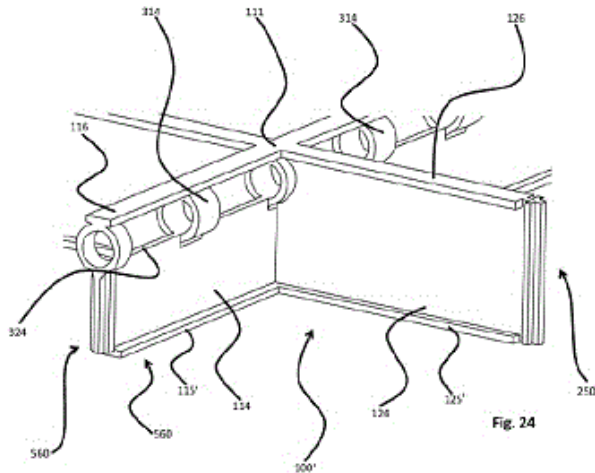
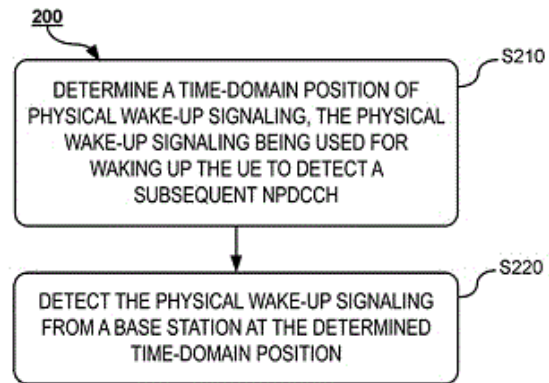


Fig. 24



21: 2020/00771. 22: 05/02/2020. 43: 2021/06/03
 51: H04L; H04W
 71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED
 72: LIU, RENMAO, CHANG, NINGJUAN, ZHANG, CHONGMING
 33: CN 31: 201710626984.8 32: 2017-07-27
54: BASE STATION, USER EQUIPMENT, AND RELATED METHOD

00: -

Provided is a method in a user equipment (UE). The method comprises: determining a time domain position of physical wakeup signaling, the physical wakeup signaling being used for waking up a UE, so as to detect a subsequent narrowband physical downlink control channel (NPDCCH); and detecting physical wakeup signaling from a base station at the determined time domain position, wherein the determination of the time domain position comprises: determining a starting subframe or an ending subframe for the physical wakeup signaling and the number of subframes for the physical wakeup signaling.

21: 2020/00780. 22: 2020/02/06. 43: 2021/06/03
 51: F25B

71: Beyond Wireless Technologies (Pty) Ltd
 72: LESTER, Ian

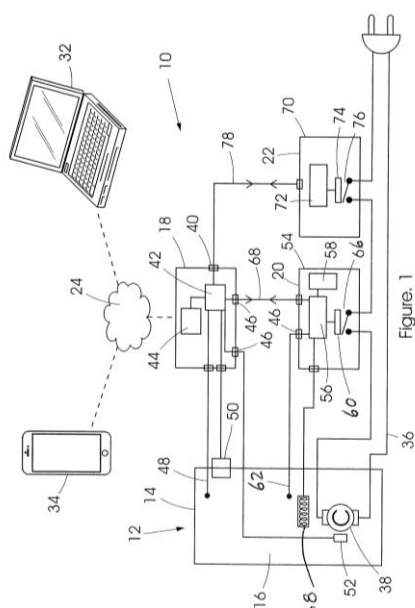
33: ZA 31: 2019/00756 32: 2019-02-06

54: REFRIGERATION CONTROL SYSTEM

00: -

The invention provides a vaccine cold chain control system which includes: a refrigeration unit in which is defined a controlled refrigerator zone in which a vaccine is stored; a first, a second and a third temperature sensor disposed within the refrigerator zone; a temperature monitoring module which includes a first processor in communication with the first temperature sensor, the first processor pre-set with at least a first temperature range and configured to receive first information from the first temperature sensor on the temperature in the refrigerator zone, to wirelessly communicate the first information to a remote server, to wirelessly communicate an alarm signal to at least the remote server if the temperature in the refrigerator zone is above or below the first temperature range and to wirelessly receive instruction input from the remote server; a first temperature control module which includes a first relay adjacent a power circuit supplying power to a compressor of the refrigeration unit, a second processor in communication with the second temperature sensor, the first relay and the first processor, wherein the second processor is pre-set with at least a second temperature range and wherein the second processor is configured to receive second information from the second temperature sensor about the temperature in the refrigerator zone and the instruction input via the first processor, and configured to energise the first relay

to open or close the power circuit, based on the second temperature range and at least one of the second information and the instruction input; and a second temperature control module which includes a second relay adjacent the power circuit, a third processor in communication with the third temperature sensor, the second relay and the first processor, wherein the third processor is pre-set with at least a third temperature range and wherein the third processor is configured to receive third information from the third temperature sensor about the temperature in the refrigerator zone and the instruction input via the first processor, and configured to energise the second relay to open or close the power circuit, based on the third temperature range and at least one of the third information and the instruction input.



21: 2020/00803. 22: 07/02/2020. 43: 2021/06/10
51: C07K
71: UCB BIOPHARMA SRL
72: ADAMS, RALPH, CESKA, THOMAS ALLEN, DAVIES, ANNA MARIE, HENRY, ALISTAIR JAMES, LIU, XIAOFENG, MCDONNELL, JAMES MICHAEL, SUTTON, BRIAN JOHN, WESTWOOD, MARTA KATARZYNA
33: GB 31: 1610198.2 32: 2016-06-10
33: GB 31: 1702435.7 32: 2017-02-15
54: ANTI-IGE ANTIBODIES
00: -

The present invention relates to the area of improved anti-IgE antibodies and antigen binding agents, and compositions thereof, which target IgE, for instance: for use in treating disorders caused by IgE (such as allergic responses, or certain autoimmune responses); and, in particular, disorders caused by the interaction of IgE with the FcεRI receptor. In particular, this invention relates to improved anti-IgE antibodies and antigen binding agents related to novel mutants of omalizumab (Xolair®). The improved anti-IgE antibodies and antigen binding agents of the invention may have improved affinity for IgE and/or an improved interaction with the Cε2 domain of IgE and/or an improved modified epitope on IgE (for instance further involving the Cε2 domain of IgE) and/or the ability to disassociate IgE from the FcεRI receptor for instance at pharmaceutically-relevant concentrations. In one aspect, improved or novel treatments for IgE mediated disorders are disclosed in which IgE is targeted (for instance free IgE and/or IgE complexed with the FcεRI receptor).

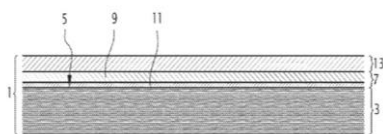
21: 2020/00811. 22: 07/02/2020. 43: 2021/06/14
51: B01D; B32B; C02F; E03F; E04B; F16L
71: ROBILLARD, RUSSELL WAYNE, ROBILLARD, FRED WAYNE
72: ROBILLARD, RUSSELL WAYNE, ROBILLARD, FRED WAYNE
33: US 31: 62/535,644 32: 2017-07-21
54: LIQUID WASTE RECEPTOR
00: -

A strainer assembly for use with a floor waste receptor having vertical walls and a floor forming a well into which liquid waste material can be collected and directed toward a well discharge opening and then into a drain pipe, the vertical walls having an outer flange extending outward from the vertical walls at a position below the top surface formed by the vertical walls, and an inner ledge formed below the top surface, and the floor shaped to form a ledge around the drain opening, comprising: a well discharge opening strainer assembly; a basket strainer sized to fit in the well and over the well discharge opening strainer assembly and sit on the floor ledge, the basket strainer provided with openings sized to permit liquid waste matter of a second predetermined size to move from the floor receptor well through the basket strainer and into the

well discharge opening strainer assembly, and a grate strainer sized to sit on the interior ledge.

21: 2020/00836. 22: 10/02/2020. 43: 2021/07/02
51: C23C
71: ARCELORMITTAL
72: Lydia RACHIELE (French Citizen), Frida GILBERT (French Citizen), Hervé DERULE (French Citizen)
33: IB 31: PCT/IB2017/001246 32: 2017-10-12
54: METAL SHEET TREATMENT METHOD AND METAL SHEET TREATED WITH THIS METHOD
00: -

The invention relates to a steel substrate coated on at least one of its faces with a metallic coating based on zinc or its alloys wherein the metallic coating is itself coated with a zincsulphate-based layer comprising at least one of the compounds selected from among zincsulphate monohydrate, zincsulphate tetrahydrate and zincsulphate heptahydrate, wherein the zincsulphate-based layer comprises neither zinc hydroxysulphate nor free water molecules nor free hydroxyl groups, the surface density of sulphur in the zincsulphate-based layer being greater than or equal to 0.5 mg/m². The invention also relates to the corresponding treatment method.



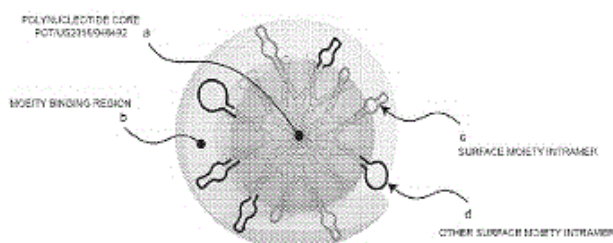
21: 2020/00851. 22: 10/02/2020. 43: 2021/06/03
51: C07K
71: ASTELLAS PHARMA INC., TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNÜTZIGE GMBH
72: MITNACHT-KRAUS, RITA, WÖLL, STEFAN, WALTER, KORDEN, TÜRECI, ÖZLEM, SAHIN, UGUR
33: EP 31: PCT/EP2017/072386 32: 2017-09-06
54: ANTIBODIES USEFUL IN CANCER DIAGNOSIS
00: -

The invention relates to antibodies directed against an epitope located within the C-terminal portion of CLDN6 which are useful, for example, in diagnosing cancer and/or in determining whether cancer cells express CLDN6.

21: 2020/00855. 22: 10/02/2020. 43: 2021/06/03
51: A61K; A61P
71: HALO-BIO RNAI THERAPEUTICS, INC.
72: HAUSER, TODD M
33: US 31: 62/532,913 32: 2017-07-14
54: METHODS AND COMPOSITIONS FOR APTAMER-DRIVEN SURFACE FORMULATION OF SELF-FORMING POLYNUCLEOTIDE NANOPARTICLES
00: -

The present invention is directed to compositions and methods for the aptamer-driven surface formulation of self-forming polynucleotide nanoparticles, and the use of such moiety-coated nanoparticle complexes for use in a variety of organisms.

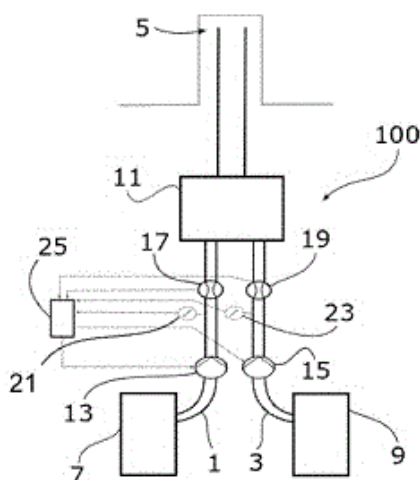
FIG. 1: Programmable Surface Formulation of Polynucleotide Nanoparticles



21: 2020/00856. 22: 10/02/2020. 43: 2021/06/03
51: E21D
71: EPIROC ROCK DRILLS AKTIEBOLAG
72: BERGQVIST, VIKTOR, EKEFALK, MARTIN, ENGBLOM, JOHAN, GÜRLER HÄGGSTRÖM, LENNART, OLSSON, JAN
33: SE 31: 1751331-8 32: 2017-10-27
54: METHOD AND SYSTEM FOR ENSURING THE QUALITY OF A MULTI-COMPONENT MIXTURE FOR ROCK REINFORCEMENT
00: -

A method (200) for ensuring the quality of a multi-component mixture comprising at least two components, in a system (100) for rock reinforcement is described herein. The system (100) comprises a first (1) and a second (3) channel for a respective first and second component intended for injection in a rock hole (5). The respective channel (1, 3) comprises a pump (13, 15) and a container (7, 9) intended for the respective component. The method comprises the steps of pumping (201) of the respective component from the respective container

(7, 9) through the respective channel (1, 3) and continuously comparing (202) the flow of the first component in the first channel (1) with the flow of the second component in the second channel (3). The method further comprises the step of controlling (203) the pumps (13, 15) individually, based on the comparison of the flows, in such a way that a deviation from a pre-defined volume ratio between the first component and the second component in the mixture is below a pre-defined first threshold. A system (100) for ensuring the quality of a multi-component mixture comprising at least two components for use in rock reinforcement is also described herein.



21: 2020/00877. 22: 2020/02/11. 43: 2021/06/14
51: A61K; A61P; C07D

71: Bristol-Myers Squibb Company
72: GLUNZ, Peter W., LADZIATA, Vladimir, DE LUCCA, Indawati, TORA, George O., MAISHAL, Tarun Kumar, TANGIRALA, Raghuram, THIYAGARAJAN, Kamalraj

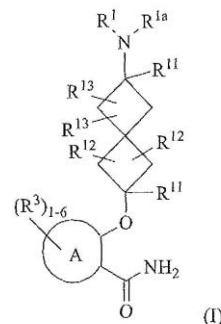
33: US 31: 62/531,563 32: 2017-07-12

54: 5-MEMBERED AND BICYCLIC HETEROCYCLIC AMIDES AS INHIBITORS OF ROCK

00: -

The present invention provides compounds of Formula (I): or stereoisomers, tautomers, or pharmaceutically-acceptable salts thereof, wherein all the variables are as defined herein. These compounds are selective ROCK inhibitors. This invention also relates to pharmaceutical compositions comprising these compounds and methods of treating cardiovascular, smooth muscle,

oncologic, neuropathologic, autoimmune, fibrotic, and/or inflammatory disorders using the same.



21: 2020/00879. 22: 11/02/2020. 43: 2021/06/03
51: H04L

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

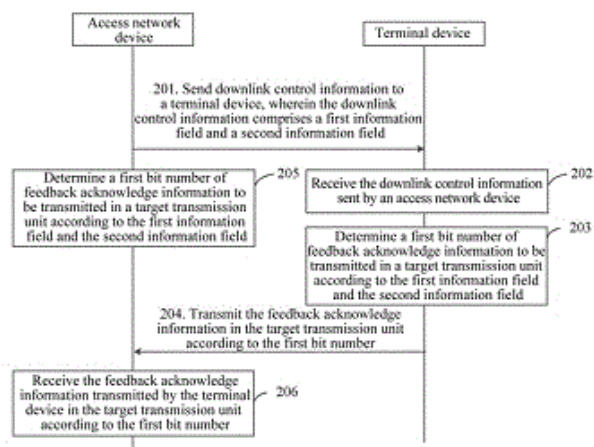
72: LIN, YANAN

54: TRANSMISSION METHOD, APPARATUS AND SYSTEM FOR FEEDBACK ACKNOWLEDGE INFORMATION

00: -

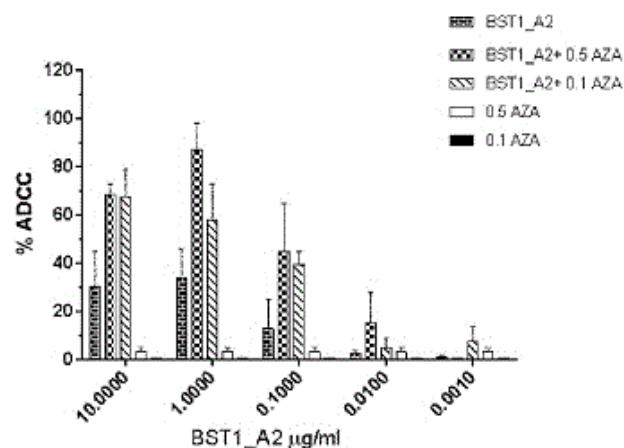
Provided in the embodiments of the present invention are a transmission method, apparatus and system for feedback acknowledge information, relating to the technical field of communications. The method comprises: receiving by a terminal device downlink control information sent by an access network device, the downlink control information comprising a first information field and a second information field, wherein the first information field is used for indicating a timing relationship of a feedback acknowledge information corresponding to the downlink control information and the second information field is used to indicate a downlink allocation index; and determining, according to the first information field and the second information field, the number of first bits of the feedback acknowledge information transmitted in a target transmission unit. In the embodiments of the present invention, the terminal device determines, according to the first information field and the second information field indicated by the access network device, the maximum number of bits of a feedback acknowledge information transmitted in the target transmission unit, so that the terminal device can simultaneously feed multiple pieces of feedback acknowledge information back to the access network

device in one target transmission unit according to the maximum number of bits.



21: 2020/00881. 22: 11/02/2020. 43: 2021/06/03
 51: A61K; C07K; A61P
 71: BERLIN-CHEMIE AG
 72: SIMONELLI, CECILIA, PELLACANI, ANDREA, BINASCHI, MONICA, BELLAROSA, DANIELA, CARRISI, CORRADO
 33: GB 31: 1711785.4 32: 2017-07-21
54: PHARMACEUTICAL COMBINATIONS COMPRISING AN ANTI BST-1 ANTIBODY AND A CYTIDINE ANALOGUE

00: -
 The disclosure relates to pharmaceutical combinations comprising antibodies against BST1 (ADP-ribosyl cyclase 2) together with a cytidine analogue or a pharmaceutically-acceptable salt thereof, and methods for the treatment of diseases, such as cancers mediated by BST1 (ADP-ribosyl cyclase 2) expression/activity and/or associated with abnormal expression/activity of BST1.



21: 2020/00884. 22: 11/02/2020. 43: 2021/06/03
 51: A61K; A61P
 71: SCI-CHEM INTERNATIONAL PTY LTD
 72: SHAH, AIYAZ
 33: US 31: 15/678,370 32: 2017-08-16
54: COMPOSITIONS FOR TREATING SKIN AND MUCOUS MEMBRANE INFECTIONS

00: -
 The present invention relates to compositions and in particular to compositions for treating a skin or mucosal membrane infection. In some embodiments, the present invention relates to a composition suitable for treating a skin or mucosal membrane infection the composition comprising glycerol, at least one surfactant, an alcohol, a terpene or terpenoid compound, and a copper compound.

21: 2020/00905. 22: 2020/02/12. 43: 2021/06/23
 51: A61K; A61Q
 71: Johnson & Johnson Consumer Inc.
 72: ZANATTA, Cinthia, MARTIN, Jeffrey Daniel, CONSUL DE MORAES, Alice Aparecida
 33: US 31: 15/648,494 32: 2017-07-13
54: LIGHT AESTHETIC SUNSCREEN COMPOSITIONS

00: -
 The present invention provides sunscreen composition comprising a hydrophobically modified polyurethane, a viscosity increasing polymer, and glyceryl stearate. This composition has surprisingly light aesthetics while providing excellent UV protection.

21: 2020/00914. 22: 12/02/2020. 43: 2021/06/23

51: A21D

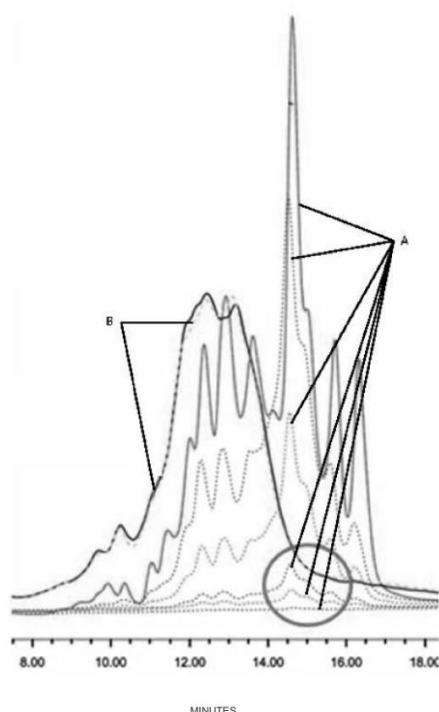
71: GONZÁLEZ DE LA TORRE, Javier

72: PEDROZA ISLAS, Ruth

54: METHOD FOR DEGRADATION OF GLIADIN TO OBTAIN GLUTEN-FREE FLOUR

00: -

The present invention relates to a method for the degradation of gliadin in flour for bread making, by means of a step of mixing the flour with water, at least one step of performing enzymatic hydrolysis, at least one step of fermenting using microorganisms in controlled-pH conditions, and a step of drying to obtain a gliadin-free flour.



21: 2020/00917. 22: 12/02/2020. 43: 2021/06/03

51: H04W

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

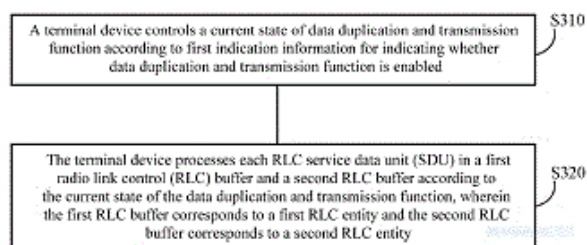
72: YANG, NING

54: METHOD AND DEVICE FOR PROCESSING DATA

00: -

Disclosed are a method and device for processing data, wherein same can realize the processing of data in an RLC cache. The method comprises: a terminal device controlling the current state of a copied data transfer function according to first indication information, wherein the first indication information is used for indicating whether the copied

data transfer function is enabled; and the terminal device processing, according to the current state of the copy data transfer function, each RLC service data unit (SDU) in a first radio link control (RLC) cache and a second RLC cache, wherein the first RLC cache corresponds to a first RLC entity, and the second RLC cache corresponds to a second RLC entity.



21: 2020/00918. 22: 12/02/2020. 43: 2021/06/03

51: E02F

71: EPIROC ROCK DRILLS AKTIEBOLAG

72: NYQVIST, STEFAN

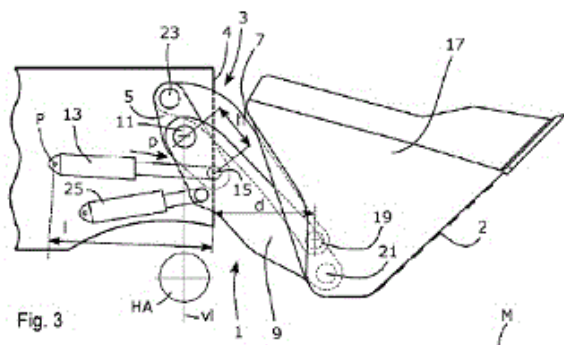
33: SE 31: 1751353-2 32: 2017-10-31

54: LIFTING ARRANGEMENT AND LOADING MACHINE FOR UNDERGROUND APPLICATIONS

00: -

A lifting arrangement (1) adapted to be mounted at a loading machine for underground applications is described. The lifting arrangement (1) comprises a control arm (3) comprising a first link (5) and a second link (7), a lift arm (9) articulately connected to the first link (5) by a first joint (11) and a first actuating means (13) articulately connected to the first link (5) by the second joint (15). The second link (7) and the lift arm (9) are adapted to permit a pivotal connection with a loading means (17) by a third joint (19) and a fourth joint (21), wherein the lift arm (9) is adapted to lift and lower the loading means (17) and the first actuating means (13) is adapted for actuating the control arm (3), by acting on the first link (5) in at least a direction (p) from the first actuating means (13), to achieve a rotational movement of the loading means (17) around said fourth joint (21), when the loading means (17) is connected to the control arm (3) and to the lift arm (9). During action of the first actuating means (13) on the first link (5) in the direction (p) from the first actuating means (13) a decrease of a distance (d) between the second joint (15) and the third joint (19)

is achieved. A loading machine (29) for underground applications is also described.



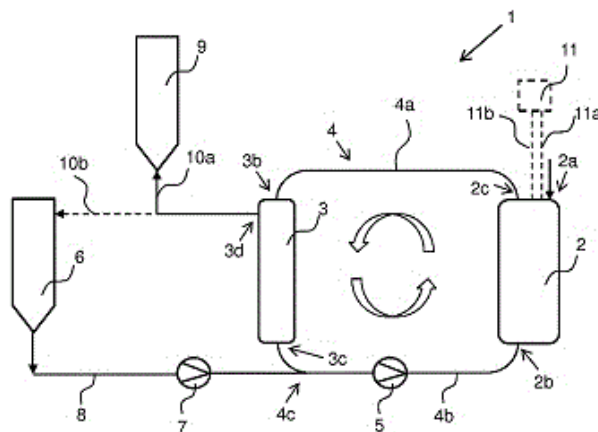
21: 2020/00920. 22: 12/02/2020. 43: 2021/06/03
51: A01N
71: AMOEBA
72: PLASSON, FABRICE, MAMERI, MOUH OULHADJ
33: FR 31: 17 57644 32: 2017-08-10
54: THERAPEUTIC OR NON-THERAPEUTIC USE OF PROTOZOANS OF THE WILLAERTIA GENUS AS A FUNGISTATIC AND/OR FUNGICIDE
00: -

The invention relates to a therapeutic or non-therapeutic use of protozoans, for examples protozoans of the Willaertia magna amoeba species, as a fungistatic and/or fungicide.

21: 2020/00921. 22: 12/02/2020. 43: 2021/06/02
51: C12C
71: ALFA LAVAL CORPORATE AB
72: MARTIN, DENIS
33: EP 31: 17182529.2 32: 2017-07-21
54: SYSTEM AND METHOD FOR EXTRACTION OF SOLUBLE FLAVORING COMPONENTS FROM A SOLID FLAVOR CARRIER MATERIAL INTO A BREWING LIQUID
00: -

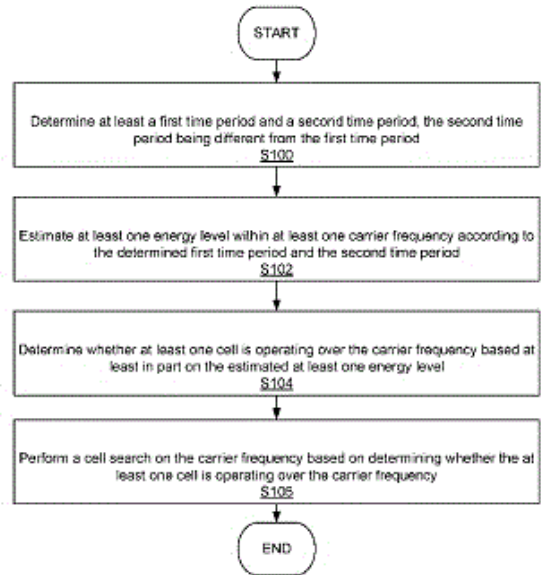
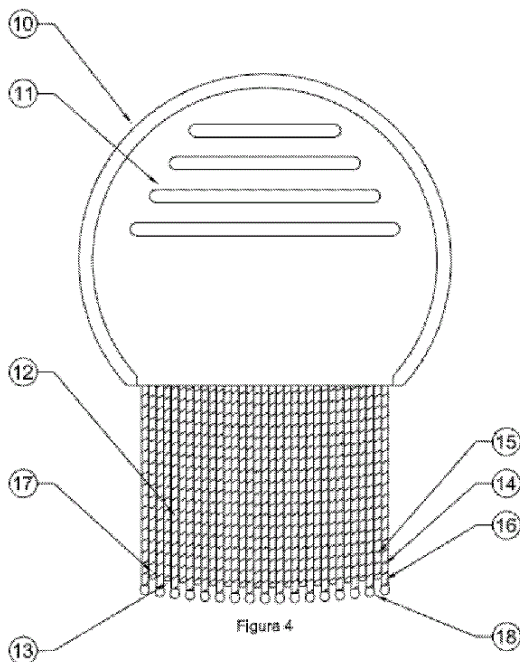
The present invention relates to a system (1) and method for extraction of soluble flavoring components from a solid flavor carrier material into a brewing liquid. The system comprises a process vessel (2) and a filtration device (3). The process vessel comprises an inlet (2a) for solid flavor carrier material, a circulation inlet (2b) for material comprising brewing liquid and a circulation outlet (2c) for material comprising brewing liquid. The filtration device is arranged for separation of solid

components from material comprising brewing liquid and is a cross-flow filtration device comprising at least one cross-flow filter (3a), a circulation inlet (3b) for material comprising brewing liquid, a circulation outlet (3c) for unfiltered material comprising brewing liquid and a closable outlet (3d) for filtered material comprising brewing liquid. The process vessel and the filtration device are comprised in a recirculation loop (4). Furthermore, the system comprises a recirculation pump (5) and a closable feed inlet (4c) for introduction of material comprising brewing liquid into the recirculation loop.



21: 2020/00933. 22: 13/02/2020. 43: 2021/06/03
51: A45D
71: LACUNA S.A.
72: BURCHAKCHI, Jorge Reinaldo, MARTIN SANZ, Juan
54: COMB FOR THE TREATMENT OF PEDICULOSIS
00: -

The invention relates to a comb for the treatment of pediculosis, which comprises a gripping handle and a plurality of teeth intended for trapping and removing the nits and lice present in the hair, wherein the teeth have a proximal end embedded in said handle and a free distal end, said teeth being differentiated into a first plurality of teeth and a second plurality of teeth, wherein the teeth of the first plurality alternate with the teeth of the second plurality, and the teeth of said first plurality are longer than the teeth of said second plurality, so that the distal ends of the teeth of the first plurality project beyond the distal ends of the teeth of said second plurality.



21: 2020/00936. 22: 13/02/2020. 43: 2021/06/03
51: H04L; H04W; H04J
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: THANGARASA, SANTHAN, KAZMI, MUHAMMAD, UESAKA, KAZUYOSHI, PALENIUS, TORGNY

33: US 31: 62/566,632 32: 2017-10-02

54: METHOD FOR BAND SCANNING WHEN REFERENCE SIGNAL IS TRANSMITTED OVER REDUCED BANDWIDTH

00: -

Apparatuses and methods for band scanning in lean carrier operation are disclosed. In one embodiment, a method for a network node includes identifying at least one time period for transmitting a reference signal over a full cell bandwidth in lean carrier operation, and transmitting a reference signal according to a bandwidth pattern. The bandwidth pattern is based at least in part on the identified at least one time period.

21: 2020/00937. 22: 13/02/2020. 43: 2021/06/14
51: H04L; H04B

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

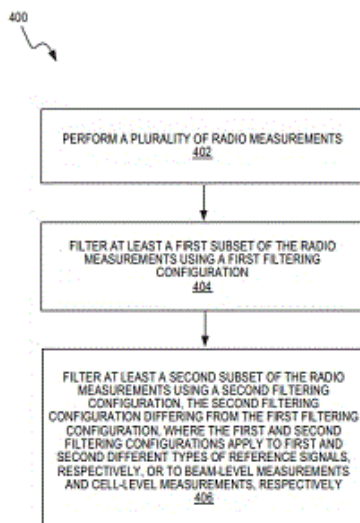
72: DA SILVA, ICARO L J, MÄÄTTANEN, HELKALIINA, KAZMI, MUHAMMAD, SIOMINA, IANA

33: US 31: 62/556,844 32: 2017-09-11

54: ENHANCED MEASUREMENT FILTERING CONFIGURATIONS FOR RADIO-LINK MANAGEMENT AND RADIO RESOURCE MANAGEMENT

00: -

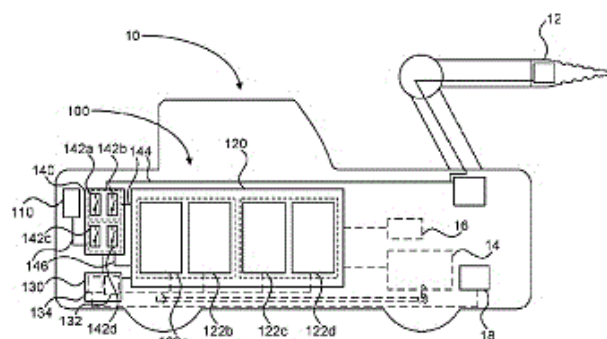
In one aspect, a wireless device is configured to perform measurements for radio resource management (RRM) and/or radio link monitoring (RLM). The wireless device performs a plurality of radio measurements. The wireless device filters at least a first subset of the radio measurements using a first filtering configuration and filters at least a second subset of the radio measurements using a second filtering configuration, where the second filtering configuration differs from the first filtering configuration. The first and second filtering configurations apply to first and second different types of reference signals, respectively, or to beam-level measurements and cell-level measurements, respectively.



21: 2020/00940. 22: 13/02/2020. 43: 2021/06/14
51: B60L; H02J
71: EPIROC ROCK DRILLS AKTIEBOLAG
72: ANDERSSON, EMIL
33: SE 31: 1751370-6 32: 2017-11-06
54: POWER SYSTEM IN A MINING MACHINE
00: -

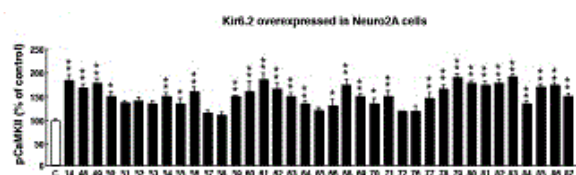
The present disclosure relates to a power system (100) in a mining machine (10) configured to perform an at least partly stationary, high power operation driving one or more electrically powered tools (12) of the mining machine (10). The power system (100) is configured to provide electrical power to the one or more electrically powered tools (12). The power system (100) comprises a grid connection (110), an energy storage system (120), an energy management system (130), and a distribution board (140). The energy storage system (120) comprises a plurality of rechargeable energy sources (122a, 122b, 122c, 122d). The distribution board (140) comprises a plurality of contactors (142a, 142b, 142c, 142d). One or more first (142a, 142b) contactors are configured to control a first connection (144) between the plurality of rechargeable energy sources (122a, 122b, 122c, 122d) and the one or more electrically powered tools (12). One or more second contactors (142c, 142d) are configured to control a second connection (146) between the plurality of rechargeable energy sources (122a, 122b, 122c, 122d) and the grid connection (110) to enable recharging of the plurality of rechargeable energy sources (122a, 122b, 122c, 122d). The energy management system (130) is

configured to control operation of the distribution board (140). The present disclosure also relates to corresponding mining machines.



21: 2020/00959. 22: 14/02/2020. 43: 2021/06/14
51: C07C; A61K; A61P; C07D
71: TOHOKU UNIVERSITY, BRAIN INNOVATION
CO., INC
72: MORIGUCHI, SHIGEKI, FUKUNAGA, KOHJI,
IWABUCHI, YOSHIHARU
33: JP 31: 2017-150290 32: 2017-08-02
**54: ADAMANTYLMETHYLAMINE DERIVATIVE
AND USE THEREOF AS PHARMACEUTICAL**
00: -

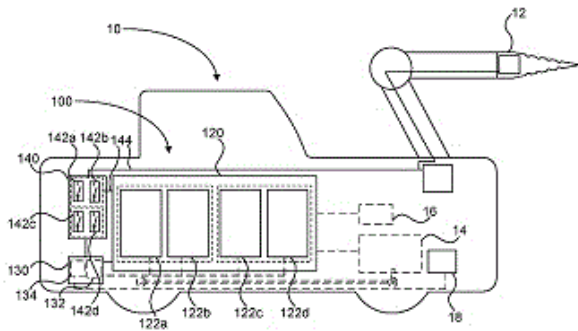
The present invention provides a pharmaceutical composition for the treatment or prevention of cognitive function diseases or disorders, wherein the pharmaceutical composition contains a compound represented by formula (I), an enantiomer thereof, a diastereomer thereof, or a pharmaceutically acceptable salt thereof.



21: 2020/00966. 22: 14/02/2020. 43: 2021/06/14
51: B60L; E21B
71: EPIROC ROCK DRILLS AKTIEBOLAG
72: ANDERSSON, EMIL
33: SE 31: 1751375-5 32: 2017-11-06
54: POWER SYSTEM IN A MINING MACHINE
00: -

The present disclosure relates to a power system (100) in a mining machine (10) configured to perform an at least partly stationary, high power operation driving one or more electrically powered tools (12) of the mining machine. The power system is arranged

to provide electrical power to the one or more electrically powered tools. The power system comprises an energy storage system (120), an energy management system (130), and a distribution board (140). The energy storage system (120) comprises a plurality of exchangeable energy sources (122a-d) configured for recharging when detached from the mining machine. The distribution board (140) comprises a plurality of contactors (142a-d). One or more contactors are arranged to control a connection between the energy sources and the one or more electrically powered tools. The energy management system is configured to control operation of the distribution board. The present disclosure also relates to corresponding mining machines.



21: 2020/00998. 22: 17/02/2020. 43: 2021/06/02
51: A63F

71: NOVOMATIC AG

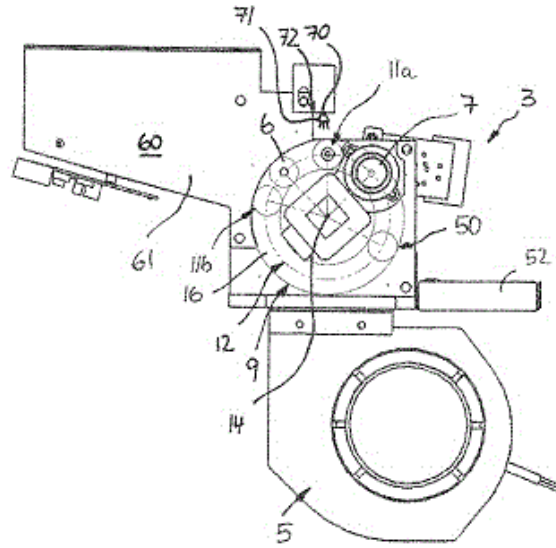
72: KULHANEK, CHRISTIAN

33: EP 31: 17187401.9 32: 2017-08-23

54: A BALL LAUNCHER AND A BALL GAMING SYSTEM INCLUDING SUCH BALL LAUNCHER

00: -

The present invention generally relates to a ball gaming system such as a roulette wheel apparatus, and in particular to a ball launcher for use in a gaming system such as a roulette wheel apparatus and to a gaming system such as a roulette wheel apparatus comprising the ball launcher, wherein the ball launcher includes a ball shuttle for transporting a ball from at least one ball-receiving station to at least one launch tube. According to the present invention, said ball shuttle is configured to move to a reject-ball station in response to a reject-ball signal to transport any old and/or defective ball to said reject-ball station instead of said at least one launch tube.



21: 2020/00999. 22: 17/02/2020. 43: 2021/06/03

51: H02G; B05C; B65D

71: CMP PRODUCTS LIMITED

72: FRIZZELL, LEE

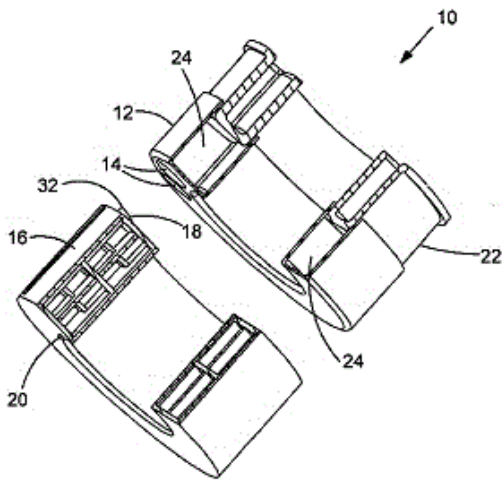
33: GB 31: 1802640.1 32: 2018-02-19

33: EP 31: 17191645.5 32: 2017-09-18

54: APPARATUS FOR DISPENSING CURABLE MATERIAL INTO A CABLE GLAND

00: -

A dispenser apparatus (10) for dispensing curable liquid material into a space in a cable gland is disclosed. The apparatus comprises a housing (12) for separately storing of components of a curable liquid material and provided with a respective first outlet (14) for each component. A mixing chamber (16) mixes the components to cause curing of the curable liquid material and has an inlet (18) for receiving the components from the first outlets, and a second outlet (20) for the mixed components. A plunger (22) urges the components out of storage chambers of the housing via the first outlets and into the mixing chamber via the inlet. The dispenser apparatus is adapted to be located in a body of a cable gland such that the mixed components are dispensable from, the second outlet into a space defined by the body and a cable extending through the body.



21: 2020/01018. 22: 18/02/2020. 43: 2021/06/03
51: H04W

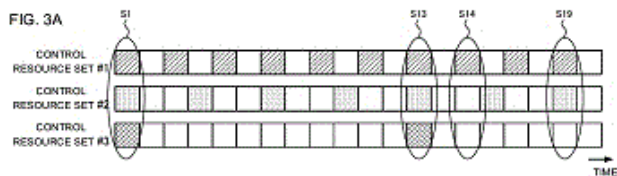
71: NTT DOCOMO, INC.

72: TAKEDA, KAZUKI, NAGATA, SATOSHI, MU, QIN, LIU, LIU

54: TERMINAL AND RADIO COMMUNICATION METHOD

00: -

To appropriately communicate a control channel even when communication is performed by applying a different control channel configuration from those of legacy LTE systems, one aspect of the user terminal includes: a reception section that receives a downlink control channel transmitted by each of a plurality of control resource sets; and a control section that controls monitoring of a downlink control channel candidate, and the control section performs control to allocate a number of downlink control channel candidates to each control resource set such that the number of downlink control channel candidates does not exceed a predetermined value per combination of the control resource sets in a predetermined time unit.



21: 2020/01021. 22: 18/02/2020. 43: 2021/06/03
51: F03B

71: ZHANG, YI

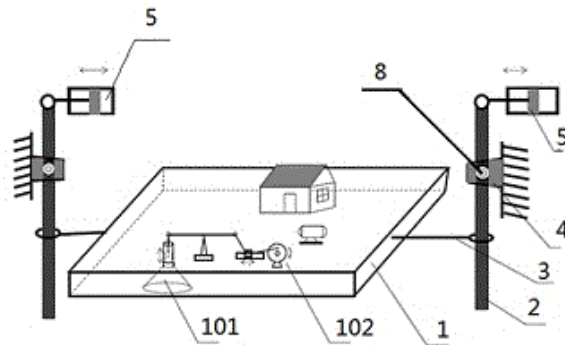
72: ZHANG, YI, ZHANG, HUIJIE, ZHANG, JILIN

33: CN 31: 201710616759.6 32: 2017-07-20

54: WAVE POWER GENERATION DEVICE

00: -

A wave power generation device comprises a floating energy harvester (1), a plurality of energy conversion levers (2) and a plurality of energy transferring rods (3) suspended around the floating energy harvester (1). One end of the energy transferring rod (3) is connected to the floating energy harvester (1), and the other end is sleeved onto the lower end of the energy conversion lever (2). The energy transferring rod (3) transfers energy harvested from a horizontal movement of a wave by the floating energy harvester to the energy conversion lever (2), and follows the vertical motion of the energy conversion lever (2) as the surface of the sea rises and falls. An upper end of the energy conversion lever (2) is connected to a first working mechanism (102), and a lower end of the energy conversion lever (2) is submerged in seawater.



21: 2020/01022. 22: 18/02/2020. 43: 2021/06/14
51: A61B

71: BACKBONE

72: LUTZ, CHRISTIAN

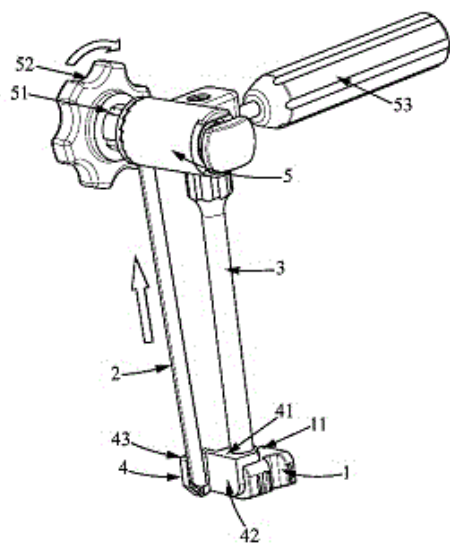
33: FR 31: 17 57698 32: 2017-08-16

54: ASSEMBLY FOR ASSISTING WITH THE POSITIONING OF AN INTERVERTEBRAL IMPLANT AND SURGICAL KIT INCORPORATING THE SAME

00: -

The present invention relates to an assembly for assisting with the positioning of an intervertebral implant, comprising an implant holder (3) having an elongate body extending along a longitudinal axis (30) between first and second ends (31, 33), the first end being adapted to be attached to the stabilising

wedge (1) of an intervertebral implant, the first end (31) of the implant holder having a deflection device (4) comprising an opening (431) having a central axis substantially perpendicular to the longitudinal axis (30) of the implant holder (3) but not converging with the longitudinal axis (30), the opening (431) thereby allowing the braid (2) of an implant to pass therethrough in such a way that, when in use, the braid (2) may have a first portion extending substantially perpendicularly to the longitudinal axis (30) from the implant to the opening, and a second portion extending from the opening to the free end (21) in a plane substantially parallel to the longitudinal axis (30) of the implant holder (3) to allow the tensioning of the braid (2).



21: 2020/01023. 22: 18/02/2020. 43: 2021/06/03
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: WILHELMSSON, LEIF, LOPEZ, MIGUEL, SUNDMAN, DENNIS

33: US 31: 62/666,171 32: 2018-05-03

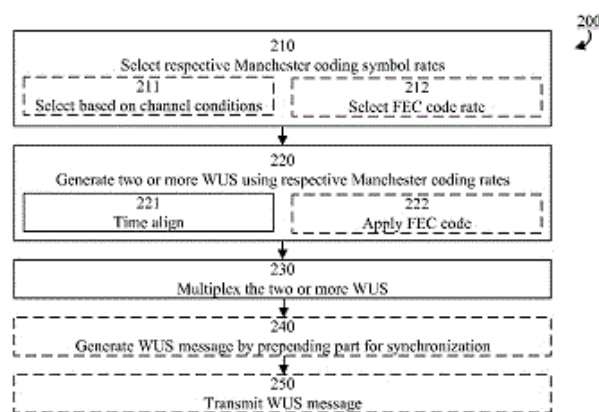
33: US 31: 62/555,737 32: 2017-09-08

54: WAKE-UP SIGNAL TRANSMISSION

00: -

A method of a network node is disclosed. The method is for concurrently transmitting two or more wake-up signals (WUS) using a signal generator applying an signal generator symbol rate, wherein each WUS is for reception by a wake-up receiver (WUR) of a respective wireless communication device. The method comprises selecting a

respective Manchester coding symbol rate for each of the two or more WUS, wherein all of the selected respective Manchester coding symbol rates are different from each other, and wherein all Manchester codes having the selected respective Manchester coding symbol rates are orthogonal to each other. The method also comprises generating each of the two or more WUS using the signal generator and application of a Manchester code of the selected respective Manchester coding symbol rate, and multiplexing the two or more WUS for transmission in a WUS message. Corresponding arrangement, network node and computer program product are also disclosed, as well as counterparts for a wireless communication device.



21: 2020/01040. 22: 19/02/2020. 43: 2021/06/14

51: C07C

71: LUNELLA BIOTECH, INC.

72: LISANTI, MICHAEL P, SOTGIA, FEDERICA

33: US 31: 62/471,688 32: 2017-03-15

54: MITORIBOSCINS: MITOCHONDRIAL-BASED THERAPEUTICS TARGETING CANCER CELLS, BACTERIA, AND PATHOGENIC YEAST

00: -

The present disclosure relates to inhibitors of mitochondrial function. Methods of screening compounds for mitochondrial inhibition are disclosed. Also described are methods of using mitochondrial inhibitors called mitoriboscins, namely mitoribomycin - mitochondrial-based therapeutic compounds having anti-cancer and antibiotic properties - to prevent or treat cancer, bacterial infections, and pathogenic yeast, as well as methods of using mitochondrial inhibitors to provide anti-aging benefits.

21: 2020/01060. 22: 19/02/2020. 43: 2021/06/03
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

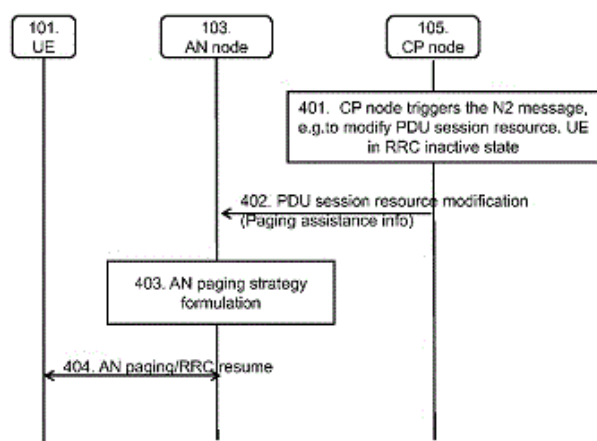
72: CHEN, QIAN, SCHLIWA-BERTLING, PAUL,
ROMMER, STEFAN

33: US 31: 62/568833 32: 2017-10-06

54: NODES AND METHODS FOR HANDLING PAGING

00: -

Embodiments herein relate generally to a Control plane, CP, node, a method performed by the CP node, a Radio Access Network, RAN, node and a method performed by the RAN node. More particularly the embodiments herein relate to handling paging.



21: 2020/01063. 22: 19/02/2020. 43: 2021/06/14
51: A61K; A61Q

71: UNILEVER PLC

72: TRENTINI, MASSIMILIANO, THOMPSON,
HELEN DIANE, BENTLEY, CHRISTOPHER DAVID,
COAN, LYNSEY JOANNE

33: EP 31: 17187894.5 32: 2017-08-25

54: PERSONAL CLEANSING COMPOSITION

00: -

Disclosed are water-based personal cleansing compositions having an isotropic surfactant phase, the compositions containing (a) an amidoamine surfactant, (b) cleansing surfactant, (c) water, and (d) protonating agent, the cleansing surfactant containing 85 to 100% by weight of a combination of betaine surfactant and taurate surfactant in particular ratios; also disclosed are methods of thickening such compositions by the addition of electrolyte.

21: 2020/01065. 22: 19/02/2020. 43: 2021/06/14
51: A61K; A61Q

71: UNILEVER PLC

72: TRENTINI, MASSIMILIANO, THOMPSON,
HELEN DIANE, BENTLEY, CHRISTOPHER DAVID,
COAN, LYNSEY JOANNE

33: EP 31: 17187893.7 32: 2017-08-25

54: PERSONAL CLEANSING COMPOSITION

00: -

Disclosed are water-based personal cleansing compositions having an isotropic surfactant phase, the compositions containing (a) cationic surfactant that includes a quaternary ammonium compound and/or an amidoamine, (b) cleansing surfactant and (c) water, the cleansing surfactant containing 85 to 100% by weight of a combination of betaine surfactant and taurate surfactant in particular ratios; also disclosed are methods of thickening such compositions by the addition of electrolyte.

21: 2020/01077. 22: 20/02/2020. 43: 2021/07/01
51: C12C

71: MALTERIES SOUFFLET

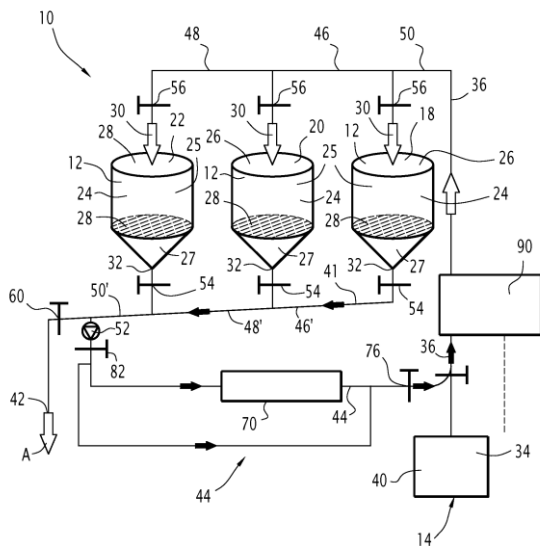
72: GOUDOT, Philippe Jean-Marie

33: EP 31: 17306149.0 32: 2017-09-05

54: MALTING PROCESS FOR STEEPING GRAIN COMPRISING A WATER CIRCULATION STEP

00: -

The present invention concerns malting process for steeping grain comprising the provision of at least a first steeping tank having an inlet and an outlet, a second steeping tank having an inlet and an outlet, and a water circulation device fluidly connecting the outlet of the first steeping tank and the inlet of the second steeping tank for circulating steeping water from the first steeping tank in the second steeping tank.



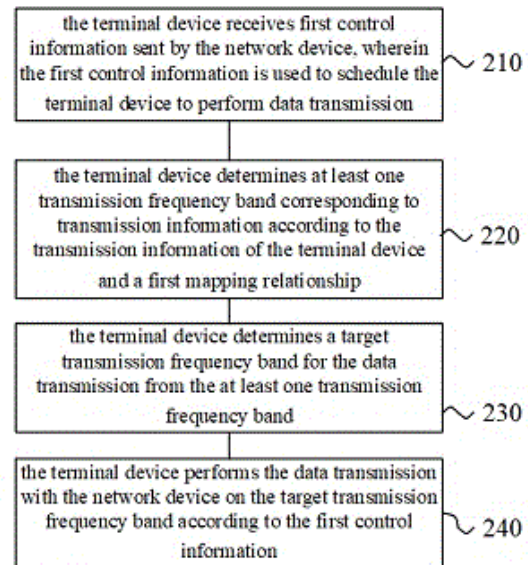
21: 2020/01084. 22: 20/02/2020. 43: 2021/06/03
 51: H04W
 71: GUANGDONG OPPO MOBILE
 TELECOMMUNICATIONS CORP., LTD.
 72: TANG, HAI

**54: METHOD FOR DATA TRANSMISSION,
 TERMINAL DEVICE AND NETWORK DEVICE**

00: -

The present application discloses a method for data transmission, a terminal device, and a network device, the method including: the terminal device receiving first control information for scheduling a terminal device to perform data transmission; and the terminal device according to the transmission information of the terminal device and the first mapping relationship, determining at least one transmission frequency band corresponding to the transmission information, wherein the first mapping relationship includes a correspondence between a plurality of pieces of transmission information and a plurality of transmission frequency bands, and the transmission information includes at least one of: an attribute of the first control information, resource type information for the data transmission, and traffic information of the terminal device; the terminal device determining a target transmission frequency band from the at least one transmission frequency band; and; and the terminal device performing the data transmission with the network device on the target transmission frequency band according to the first control information. Since it only has to indicate with respect to at least one transmission frequency

band corresponding to each transmission frequency band without indicating with respect to all transmission frequency bands in the system bandwidth, it can reduce signaling overhead on downlink control information.



21: 2020/01111. 22: 21/02/2020. 43: 2021/07/02
 51: A61B

71: UROMED KURT DREWS KG

72: Werner SCHWARZ

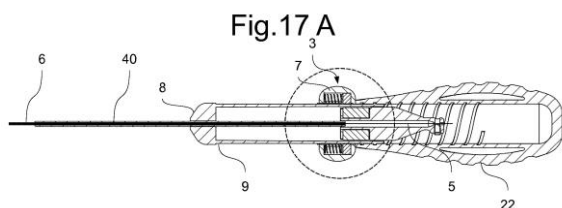
33: DE 31: 10 2017 010 535.9 32: 2017-11-14

**54: MEDICAL DEVICE FOR MOVING A MEDICAL
 INSTRUMENT**

00: -

The aim of the invention is to move a medical instrument (2) by means of a medical device (1) in the longitudinal direction of the device and in the rotation direction transversely about the longitudinal direction by an actuating apparatus (3). This aim is achieved in that the medical instrument (2) is connected to at least one first magnetic element (18, 19) and the actuating apparatus (3) contains at least one second magnetic element (20, 21) or is connected thereto; the actuating apparatus (3) is movable together with the at least one second magnetic element (20, 21) in the longitudinal direction of the device and in the rotational direction about the longitudinal direction in question and is movable together with the at least one second magnetic element (20, 21) in the longitudinal direction of the device and in the rotational direction about the longitudinal direction in question and

permits, by means of magnetic coupling between the at least one second magnetic element (20, 21) and the at least one first magnetic element (18, 19), moving same together with the medical instrument (2).



21: 2020/01115. 22: 21/02/2020. 43: 2021/06/03
51: G01N; C12N

71: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
72: CARON, KARINE, TROWELL, STEPHEN CHARLES

33: AU 31: 2017903148 32: 2017-08-08

54: CARBOHYDRATE SENSORS

00: -

The present invention relates to sensors and methods for detecting carbohydrates, such as lactose, in a sample. The sensors and methods may also be used to determine the amount of carbohydrate in the sample.

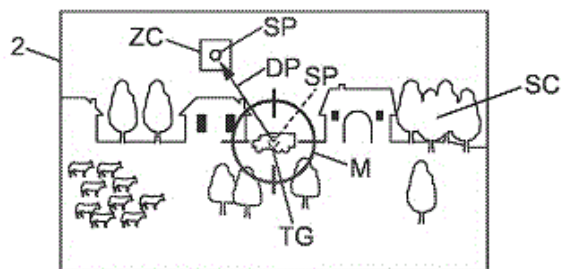
21: 2020/01116. 22: 21/02/2020. 43: 2021/06/03
51: F41G

71: SAFRAN ELECTRONICS & DEFENSE
72: ROBERT, PATRICK, SIK, HERVÉ
33: FR 31: 17 00873 32: 2017-08-24

54: IMAGING INSTRUMENT FOR CONTROLLING A TARGET DESIGNATION

00: -

An imaging instrument for controlling a target designation makes it possible to visualise a target designation spot (SP) within a scene (SC), while using only one image sensor. To do this, a filter is arranged on the image sensor, in a restricted area (ZC) of same. The filter makes it possible to increase a contrast and a signal-to-noise ratio for an image of the target designation spot, when a misalignment (DP) is produced in order to bring the image of the target designation spot into the area of the filter.



21: 2020/01117. 22: 21/02/2020. 43: 2021/06/02
51: G02B

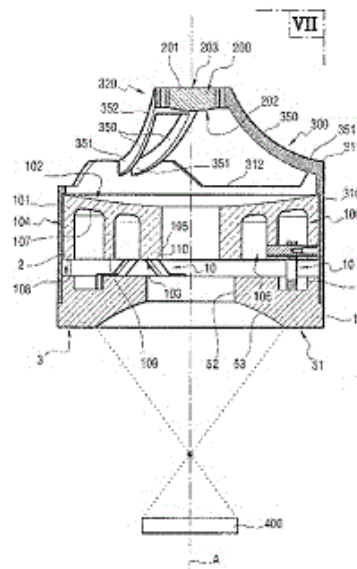
71: SAFRAN ELECTRONICS & DEFENSE
72: HOELTZEL, CHARLOTTE, TACCONI, CÉDRIC, FURUI, CHRISTOPHE, SEILLIER, FRANCK, ANNA, GUILLAUME

33: FR 31: 17/00866 32: 2017-08-22

54: TELESCOPE THAT IS EASIER TO MOUNT AND METHOD FOR ADJUSTING SUCH A TELESCOPE

00: -

The invention relates to a telescope comprising an attachment plate (1), a primary mirror (100) borne by a front face (2) of the plate, and a secondary mirror (200) held opposite the primary mirror by a support (300), characterized in that the telescope is of the Cassegrain type and the plate (1) has a rear surface (3) having positioning references for the telescope with respect to an image capturing device (400) disposed opposite the rear face.



21: 2020/01118. 22: 21/02/2020. 43: 2021/06/14
51: G02B

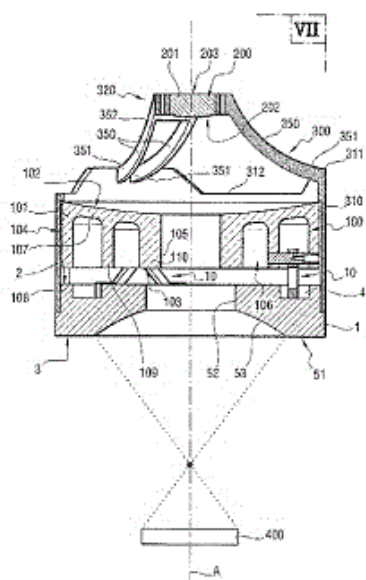
71: SAFRAN ELECTRONICS & DEFENSE
 72: HOELTZEL, CHARLOTTE, TACCONI, CÉDRIC,
 FURUI, CHRISTOPHE, SEILLIER, FRANCK, ANNA,
 GUILLAUME

33: FR 31: 17/00869 32: 2017-08-22

54: TELESCOPE WITH IMPROVED PERFORMANCE AND SIMPLIFIED MOUNTING

00: -

A telescope comprising an attachment plate (1), a primary mirror (100) supported by a front surface (2) of the plate, and a secondary mirror (200) held opposite the primary mirror by a support (300), characterised in that the support (300) comprises a primary ring (310) mounted around the primary mirror (100), a secondary ring (320) mounted around the secondary mirror (200), arms (350) linking the secondary ring to the primary ring, and a means for mechanically decoupling the secondary mirror (200) with respect to the primary mirror (100).



21: 2020/01119. 22: 21/02/2020. 43: 2021/06/14

51: C12Q; C07K

71: COMMONWEALTH SCIENTIFIC AND
 INDUSTRIAL RESEARCH ORGANISATION
 72: CARON, KARINE, TROWELL, STEPHEN
 CHARLES

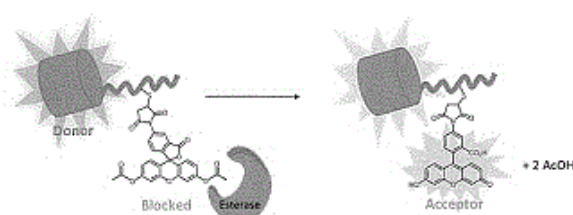
33: AU 31: 2017903420 32: 2017-08-24

54: BRET SENSOR MOLECULES FOR DETECTING HYDROLASES

00: -

The present invention relates to bioluminescence resonance energy transfer sensor molecules having the structure R^1-L-R^2-B or $B-R^2-L-R^1$, wherein R^1 is a

bioluminescent protein, L is a linking element, R^2 is a non-protein acceptor domain and B is a blocking group, and wherein R^2 bound to B comprises a hydrolysable bond which produces a change in BRET when hydrolysed. The invention also discloses a method of detecting a hydrolase by contacting a sample with a molecule $B-R^2$, then contacting with a compound R^1-L or $L-R^1$ under conditions to cause attaching of R^2 to L , and detecting a change in the BRET ratio. Specifically exemplified sensors comprise luciferase and fluorescein diacetate, which is hydrolysed by an esterase. The invention also discloses luciferase enzymes derived from RLuc8 by removing cysteine residues.



21: 2020/01120. 22: 21/02/2020. 43: 2021/06/14

51: G02B

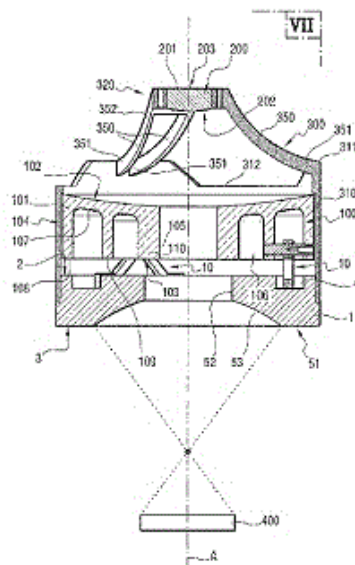
71: SAFRAN ELECTRONICS & DEFENSE
 72: HOELTZEL, CHARLOTTE, TACCONI, CÉDRIC,
 FURUI, CHRISTOPHE, SEILLIER, FRANCK, ANNA,
 GUILLAUME

33: FR 31: 17/00867 32: 2017-08-22

54: TELESCOPE WITH SIMPLIFIED MOUNTING

00: -

The invention relates to a telescope comprising an attachment plate (1), a primary mirror (100) borne by a front face (2) of the plate, and a secondary mirror (200) held opposite the primary mirror by a support (300). The primary mirror is connected to the plate by fastening elements (10) having a bearing that receives a pin (20) with a sliding fit, the pin being bonded in the bearing by means of a structural adhesive; the pin is provided with a central duct (25) having a first end opening onto a part (26) of the pin that is accessible when the pin is in position in the bores in order to receive one end of an adhesive injection needle and a second end opening into at least one transverse duct (27), at least one end of which opens into the bearing.

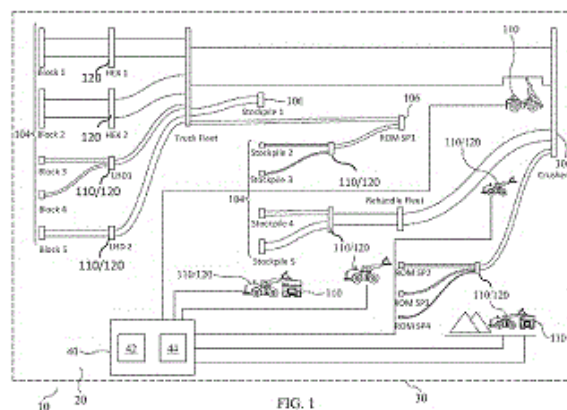


21: 2020/01122. 22: 21/02/2020. 43: 2021/06/03
51: G06Q
71: CATERPILLAR INC.

72: MOUNTFORD, GORDON W, WOOD, GREG M,
BROCKHURST, RUSSELL, DOHERTY, THOMAS F
33: US 31: 15/661,308 32: 2017-07-27

54: BLEND CONTROL TRUCK ASSIGNMENT MONITORING SYSTEM AND METHOD

00: -
A site management system (30) for tracking material movement in an environment (10) includes a plurality of material sources (104), one or more processors (106), and a plurality of machines (110). Each of the machines (110) operates according to operating instructions to capture material from one material source (104) and deliver the material at or near at least one processor (106). The site management system (30) also includes an environment monitoring system (40) having a controller (42) configured to monitor movement of the machines (110), track a cumulative material blend at each of the processors (106) based on the movement of the machines (110), and modify the operating instructions to maintain the cumulative material blend within a target blend range.

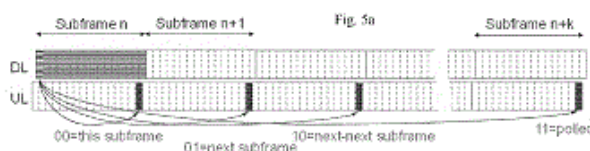


21: 2020/01/128. 22: 24/02/2020. 43: 2021/06/03
51: H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

72: PARKVALL, STEFAN, BALDEMAIR, ROBERT
33: US 31: 62/221,345 32: 2015-09-21

54: METHODS AND APPARATUSES FOR
CONTROLLING TIMING OF FEEDBACK
TRANSMISSIONS

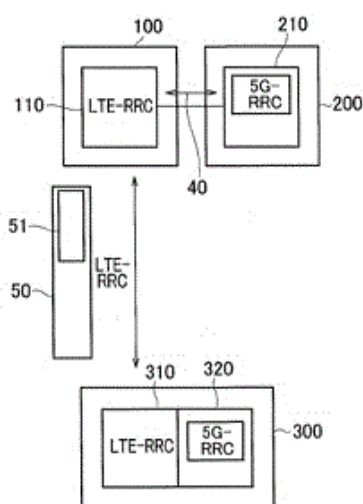
00: -
There is disclosed a method for controlling the timing of feedback transmissions by a communication device (80) communicating over a communication link (70), wherein the communication link supports a retransmission scheme. The method comprises transmitting (42) a feedback timing indicator, FTI, wherein the indicator is selected from a set of indicators.



21: 2020/01/129. 22: 24/02/2020. 43: 2021/06/03
51: H04W
71: NTT DOCOMO, INC.
72: HAPSARI, WURI ANDARMAWANTI,
MATSUKAWA, RYUSUKE, TAKAHASHI, HIDEAKI,
UMESH, ANIL, ABETA, SADAYUKI
33: JP 31: 2016-096560 32: 2016-05-12
**54: RADIO COMMUNICATION SYSTEM AND
USER DEVICE**

00: -
The invention relates to a radio communication
system performing dual connectivity with a user

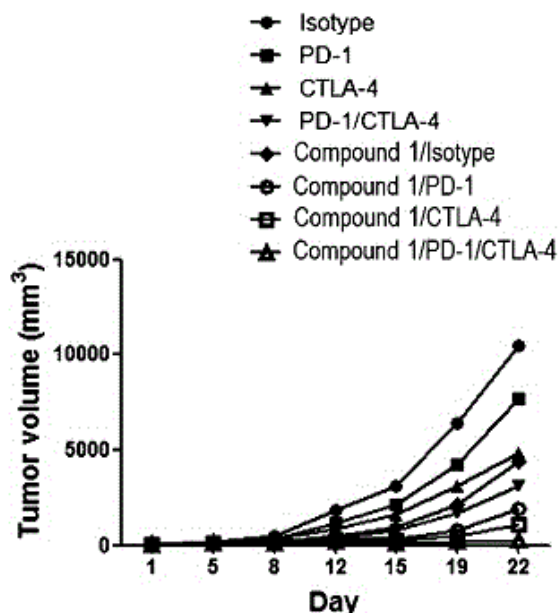
device. The system includes a first radio base station conforming to a first radio communication method as a master, and a second radio base station conforming to a second radio communication method as a secondary. The first radio base station includes a first control function unit that performs control based on a first radio resource control protocol in the first radio communication method. The second radio base station includes a second control function unit that performs control based on a second radio resource control protocol in the second radio communication method. The first control function unit transmits and receives a message conforming to the first radio resource control protocol. The first radio base station performs coordination with the second radio base station via an inter-node interface connecting the first radio base station and the second radio base station, the coordination being necessary for the dual connectivity. The message includes an information element conforming to the second radio resource control protocol.



21: 2020/01148. 22: 24/02/2020. 43: 2021/06/03
51: A61K
71: CHONG KUN DANG PHARMACEUTICAL CORP.
72: CHOI, INHAK, KIM, SOO JIN, KIM, U JI, IM, SUNA
33: KR 31: 10-2017-0094767 32: 2017-07-26
54: COMPOSITION FOR PREVENTING OR TREATING CANCER COMPRISING A VASCULAR DISRUPTING AGENT AND IMMUNE CHECKPOINT INHIBITOR

00: -

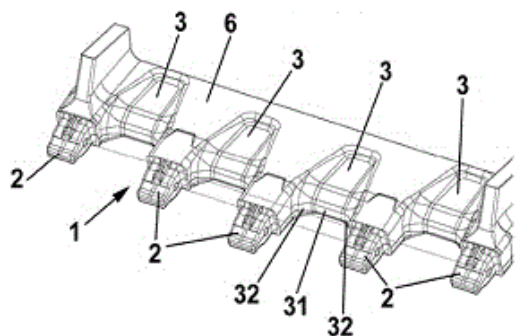
The present disclosure provides a composition for preventing or treating cancer comprising (S)-N-(4-(3-(1H-1,2,4-triazole-1-yl)-4-(3,4,5-trimethoxybenzoyl)phenyl)thiazole-2-yl)-2-amino-3-methylbutanamide or pharmaceutically acceptable salts thereof, and an immune checkpoint inhibitor. The composition of the present disclosure achieves an excellent cancer treatment effect.



21: 2020/01149. 22: 24/02/2020. 43: 2021/06/02
51: E02F
71: METALOGENIA RESEARCH & TECHNOLOGIES S.L.
72: AMAT HOLGADO, CARLOS, GIMENO TORDERA, ALBERT, TRIGINER BOIXEDA, JORGE
54: LIP OF A SCOOP FOR EARTH-MOVING MACHINES

00: -

The lip of the scoop has a front blade (1) provided with a plurality of projections (2) for placing a plurality of teeth; a plurality of front cavities (3) placed between said projections (2) for placing a plurality of front protectors; and a plurality of tie rods (4) for distributing the tensions produced during the use of the scoop; in which said tie rods (4) are arranged between said projections (2), following said front cavities (3). This makes it possible to optimise the distribution of tensions during the use of the machine, achieving a more flexible blade that is exposed to less fatigue, so that fewer repair tasks are required.



21: 2020/01154. 22: 24/02/2020. 43: 2021/06/14

51: F03B

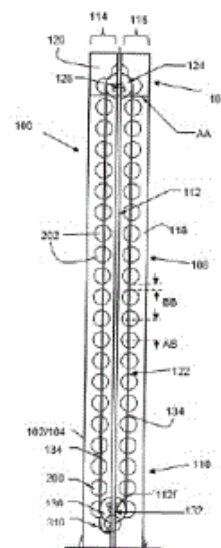
71: INDUSTRIA INNOVATIONS PTE. LTD.

72: PARKER, ERROL THOMAS

54: TORQUE GENERATING APPARATUS

00: -

A torque generating apparatus is disclosed, comprises an endless conveyor, a number of vessels 202 arranged to be connected to the endless conveyor, and a gas injection mechanism arranged at the base section 110 to inject a predetermined amount of gas into the inner vessel cavity via its vessel aperture to cause the respective vessels 202 to be buoyant and rise towards the air cavity 120; and at the top section 106, the vessels 202 are arranged to pass through the air cavity 120 and the inner vessel cavity of each vessel 202 is arranged to be filled with the water as the vessels 202 submerge into the water and expel air from the vessels to cause the vessels to sink downwardly towards the base section, wherein the conveyor is arranged to move to generate torque in response to the rising and downward movements of the respective ones of the plurality of vessels 202.



21: 2020/01165. 22: 2020/02/25. 43: 2021/06/03

51: E02B; E21D; E21F

71: TUF BAG (PTY) LTD

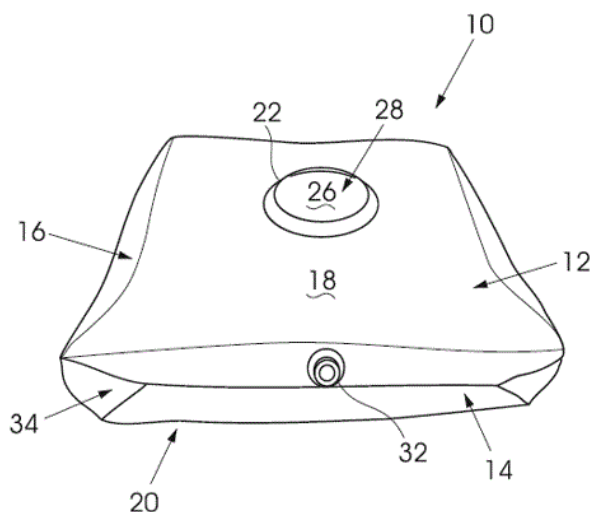
72: JELLIMAN, Gareth Bryan

33: ZA 31: 2018/08075 32: 2018-11-29

54: A GROUT BAG

00: -

The invention provides for a grout bag fillable with grout, wherein the grout bag comprises a gusseted tubular sheet of material including upper and lower surfaces, opposing gusseted side surfaces, including gusset folds, and opposing open ends, which are sealable to form opposing end surfaces. At least one sealable opening is configured on the upper and/or lower surface of the gusseted tubular sheet to permit inversion of the gusseted tubular sheet, with sealed ends, through the at least one opening to form the bag. The invention also extends to a method of manufacture of a grout bag.



21: 2020/01170. 22: 25/02/2020. 43: 2021/06/02

51: E04H

71: PACADAR, S.A.

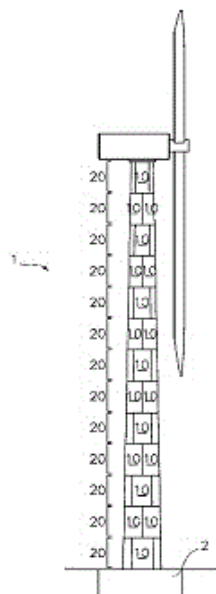
72: LANCHI FERNANDEZ, JUAN CARLOS,
CIDONCHA ESCOBAR, MANUEL, SALETE
CASINO, EDUARDO, MARTINEZ DE CASTANEDA,
FRANCISCO JAVIER

33: EP 31: 17382536.5 32: 2017-08-02

54: SUPPORT STRUCTURE FOR WIND-DRIVEN POWER GENERATORS

00: -

The present invention relates to a support structure for wind-driven power generators comprising a tubular tower (1) with multiple superposed, post-tensioned annular sections (20) from the crown to the foundation, each being formed by at least two pieces of prefabricated concrete wall (10) defining between them vertical joints (12), each wall piece (10) having two transverse joint faces (13) and two vertical joint faces (14); wherein in the vertical joints (12), the vertical joint faces are arranged facing one another and lack structural connectors between them for the transmission of structural stresses, allowing for an independent structural behavior of the mentioned wall pieces (10), the height of the wall pieces (10) being less than twice their width.



21: 2020/01171. 22: 25/02/2020. 43: 2021/06/02

51: A63G

71: STROJIRNA LITVINOV SPOL. S.R.O.

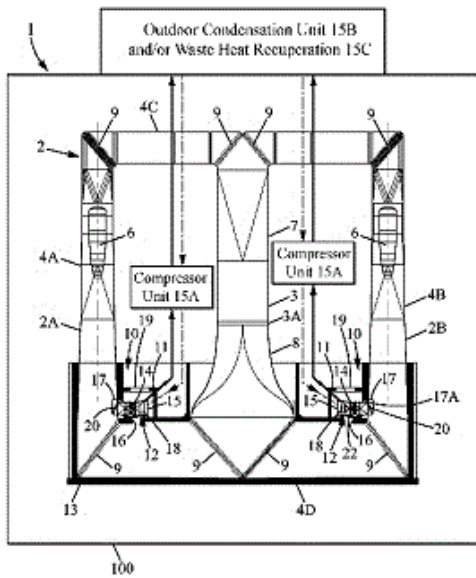
72: MARSIK, TOMAS

33: CZ 31: PV 2017-433 32: 2017-07-28

54: FREE FALL SIMULATOR COOLING SYSTEM

00: -

A free fall simulator (1) comprising: a wind tunnel system (2); a flight chamber (3) connected to the wind tunnel system such that the wind tunnel system and the flight chamber allow for a continuous flow of circulating air, and a cooling system (11) for cooling of the air circulating in the wind tunnel system, wherein the cooling system comprises: (i) an air inlet (17) sucking in a part of the air circulating in the wind tunnel system; (ii) at least one heat exchanger (15) comprising a coolant; and (iii) at least one air outlet (16) adapted such that the cooled air leaves the cooling system through the at least one air outlet. The cooling system (11) further comprises: (iv) a closed pressure chamber (11A) comprising a cooling area (11B), wherein pressure in said cooling area (11B) is higher than atmospheric pressure, and (v) at least one auxiliary fan (14) configured to maintain pressure within the cooling area of the pressure chamber (11A) higher than the atmospheric pressure, wherein the at least one heat exchanger (15) is located inside of the closed pressure chamber (11A) so that the cooling of the circulating air takes place in the cooling area (11B).



21: 2020/01172. 22: 25/02/2020. 43: 2021/06/02
51: G01F; A61B; B06B; G01S
71: SENTEC LTD.

72: DENG, WENPENG, BENNETT, JAN, HEALY, DAVID, DAMES, ANDREW NICHOLAS, EVETT, JAMES WILLIAM

33: GB 31: 1713895.9 32: 2017-08-30

54: ULTRASONIC FLOW RATE METERING

00: -

A method for an ultrasonic time-of-flight flow meter (1) includes driving an ultrasonic transducer (2, 3) using a first waveform ($V_1(t)$) for a first duration (Δt_1), the first waveform ($V_1(t)$) configured to cause oscillation (21) of the ultrasonic transducer (2, 3). The method also includes driving the ultrasonic transducer (2, 3) using a second waveform ($V_2(t)$) for a second duration (Δt_2). There is a discontinuity between the first waveform ($V_1(t)$) and the second waveform ($V_2(t)$). The second waveform ($V_2(t)$) and the second duration (Δt_2) are configured to maintain a voltage ($V_t(t)$) across the ultrasonic transducer (2, 3) within a predetermined range (V_h, V_L).

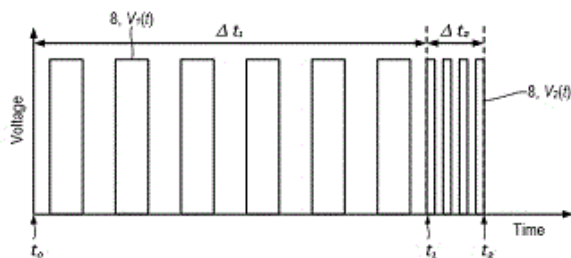


Fig.9

21: 2020/01173. 22: 25/02/2020. 43: 2021/06/02
51: H04W

71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED

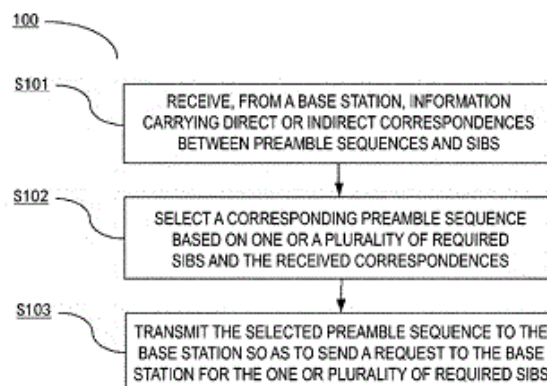
72: ZHANG, CHONGMING, YAMADA, SHOHEI, LIU, RENMAO

33: CN 31: 201710627134.X 32: 2017-07-27

54: SYSTEM INFORMATION REQUEST METHOD, CORRESPONDING USER EQUIPMENT AND COMPUTER READABLE MEDIUM

00: -

The present disclosure provides a method executed at UE, comprising: receiving information carrying a direct or indirect correspondence of a preamble sequence and a system information block (SIB) from a base station; on the basis of one or more required SIBs and the received correspondence, selecting a corresponding preamble sequence according to at least one of the following criteria: selecting a single preamble sequence corresponding to the required SIBs in the largest number; selecting a single preamble sequence corresponding to the non-required SIBs in the least number; selecting one or more preamble sequences in the least total number, corresponding to the one or more required SIBs; and selecting different preamble sequences corresponding to the required SIBs at different priority levels respectively according to the priority levels of the one or more required SIBs; and sending the selected preamble sequences to the base station for requesting the one or more SIBs from the base station. The present disclosure further provides corresponding UE and a computer readable medium.



21: 2020/01174. 22: 25/02/2020. 43: 2021/06/02
51: A61K; A61P

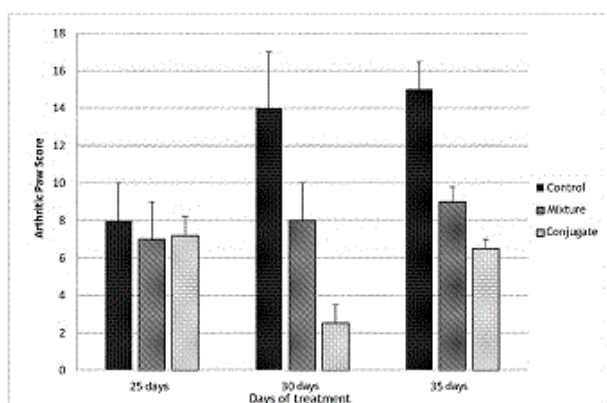
71: FIDIA FARMACEUTICI S.P.A
 72: SCHIAVINATO, ANTONELLA, GRECO,
 VALENTINA, MESSINA, LUCIANO, VACCARO,
 SUSANNA, RIZZARELLI, ENRICO, SCIUTO,
 SEBASTIANO

33: IT 31: 102017000110784 32: 2017-10-03

**54: PHARMACEUTICAL COMPOSITIONS
 CONTAINING HYALURONIC ACID AND
 CARNOSINE AND RELATIVE USE**

00: -

Pharmaceutical compositions are described containing Hyaluronic Acid and Carnosine for use in the treatment and prevention of osteoarthritis (OA) and for the treatment of rheumatoid arthritis (RA).



21: 2020/01207. 22: 26/02/2020. 43: 2021/06/02

51: H04W

71: GUANGDONG OPPO MOBILE
 TELECOMMUNICATIONS CORP., LTD.

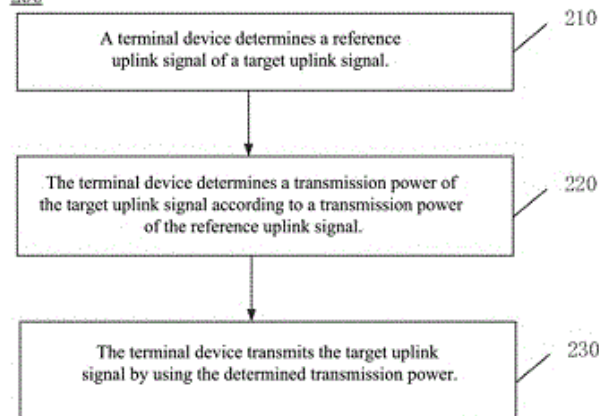
72: CHEN, WENHONG

**54: WIRELESS COMMUNICATION METHOD AND
 TERMINAL DEVICE**

00: -

The embodiments of the present application provide a wireless communication method and device, being able to determine, with reference to the transmission power of one uplink signal, the transmission power of another signal as required in a reasonable manner, and directly schedule the fixed transmission power without the need of a network device, thereby improving the communication performance. The method comprises: a terminal device determining a reference uplink signal of a target uplink signal; the terminal device determining the transmission power of the target uplink signal according to the transmission power of the reference uplink signal; and the terminal device transmitting the target uplink signal by using the determined transmission power.

200



21: 2020/01208. 22: 26/02/2020. 43: 2021/06/03

51: A61K; C07D

71: LUNDBECK LA JOLLA RESEARCH CENTER,
 INC.

72: GRICE, CHERYL A, WEBER, OLIVIA D,
 BUZARD, DANIEL J, SHAGHAFI, MICHAEL B,
 JONES, TODD K

33: US 31: 62/551,721 32: 2017-08-29

**54: SPIROCYCLE COMPOUNDS AND METHODS
 OF MAKING AND USING SAME**

00: -

Provided herein are compounds and compositions useful as modulators of MAGL. Furthermore, the subject compounds and compositions are useful for the treatment of pain.

21: 2020/01210. 22: 26/02/2020. 43: 2021/06/03

51: D21C; D21H

71: KEMIRA OYJ

72: SIMELL, JAAKKO, KOLARI, MARKO, KONN,
 JONAS

33: EP 31: 17188319.2 32: 2017-08-29

**54: METHOD FOR CONTROLLING GROWTH OF
 MICROORGANISMS AND/OR BIOFILMS IN AN
 INDUSTRIAL PROCESS**

00: -

The invention relates to a method for controlling of a biofilm, for removing of a formed biofilm and/or for controlling a growth of microorganisms, preferably bacteria, in an aqueous environment of an industrial manufacturing process comprising cellulosic fibre material. A compound according to Formula I is administered to the aqueous environment of the process, in which Formula I R1, R2 and R3 independently represent a hydrogen atom; halogen atom; hydroxy group; amino group; alkylamino group; alkyl group; hydroxyalkyl group, haloalkyl

group or alkoxy group having 1 to 4 carbon atoms; or an acylamido group having 1 to 10 carbon atoms; and A represents 2-thiazolamine; 2-propenenitrile; 2-propenoic acid; alkyl ester or hydroxyalkyl ester of 2-propenoic acid having 1 to 4 carbon atoms; or -CHCHCONR⁵R⁶ group, where R⁵ and R⁶ represent independently hydrogen atom, alkyl or hydroxyalkyl having 1 to 4 carbon atoms, with the proviso that the compound according to Formula I is not 3-[(4-methylphenyl)sulphonyl]-2-propenenitrile or 4-amino-N-2-thiazolyl-benzene-sulphonamide.

21: 2020/01242. 22: 2020/02/27. 43: 2021/06/03

51: A61K; A61P; C07D

71: Incyte Holdings Corporation

72: COMBS, Andrew P., SPARKS, Richard B., MADUSKUIE, Jr, Thomas P., RODGERS, James D.

33: US 31: 61/794,812 32: 2013-03-15

54: TRICYCLIC HETEROCYCLES AS BET PROTEIN INHIBITORS

00: -

The present invention relates to tricyclic heterocycles which are inhibitors of BET proteins such as BRD2, BRD3, BRD4, and BRD-t and are useful in the treatment of diseases such as cancer.

21: 2020/01260. 22: 27/02/2020. 43: 2021/06/02

51: A01K

71: EGG-CHICK AUTOMATED TECHNOLOGIES

72: MENGUY, FLORENT, LINCOT, GILDAS, MALET, BERTRAND

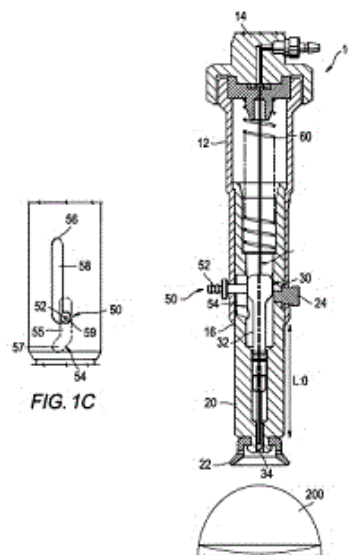
33: US 31: 62/556,582 32: 2017-09-11

54: SYSTEM AND METHOD FOR INJECTING AN EGG

00: -

An injector (10), injection systems (100) and methods for injecting a substance into an egg (200), in which the injector includes a shaft (12), a sheath (20) extending from the shaft in a longitudinal direction; a trocar (30) positioned at least partly inside the sheath; and a needle (40) at least partly inside the trocar. The injector can further include a locking mechanism (50) configured to lock the trocar with the shaft in the longitudinal direction in a first position of the trocar relative to the sheath, the locking mechanism being further configured to unlock the trocar from the shaft in the longitudinal direction in a second position of the trocar relative to the sheath. The needle is fully inside the trocar in the

first longitudinal position and at least partly extends from the trocar in the second longitudinal position.



21: 2020/01261. 22: 27/02/2020. 43: 2021/06/02

51: C04B

71: MAPEI SPA

72: FERRARI, GIORGIO, BROCCHI, ALBERTO, SQUINZI, MARCO

33: IT 31: 102017000107064 32: 2017-09-25

54: ACCELERATING ADMIXTURE FOR HYDRAULIC COMPOSITIONS

00: -

The object of the present invention is a novel admixture comprising a hardening accelerator for hydraulic compositions based on Portland cement and other supplementary cementitious materials.

21: 2020/01266. 22: 27/02/2020. 43: 2021/06/02

51: C07D; A61K; A61P

71: BIONTECH SE

72: HENRY, CHRISTOPHE

33: EP 31: PCT/EP2017/072352 32: 2017-09-06

54: SUBSTITUTED IMIDAZOQUINOLINES

00: -

The invention relates to imidazoquinoline derivatives and to pharmaceutical compositions containing the imidazoquinoline derivatives. The imidazoquinoline derivatives of the invention are useful as toll-like receptor agonists, in particular agonists of TLR7, and promote induction of certain cytokines.

21: 2020/01269. 22: 27/02/2020. 43: 2021/06/02

51: C11D; D06F

71: UNILEVER PLC

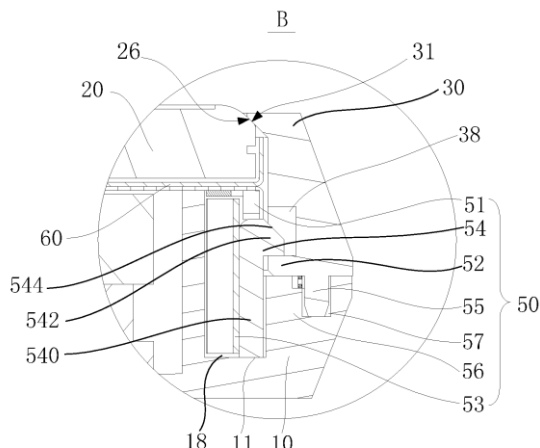
72: COOKE, DEBORAH JANE, MOORFIELD, DAVID

33: EP 31: 17194249.3 32: 2017-09-29

54: LAUNDRY PRODUCTS

00: -

A combination of reservoirs providing segregated stocks of components for laundry products to enable a user to formulate doses of laundry products on demand for supplying to a washing machine drum, the combination comprising: a first reservoir containing a stock of a first composition containing a detergent; and a second reservoir containing a second composition comprising a stock of an antimalodour component.



21: 2020/01273. 22: 27/02/2020. 43: 2021/07/16

51: H04M

71: GUANGDONG OPPO MOBILE

TELECOMMUNICATIONS CORP., LTD.

72: ZENG, Yuanqing

33: CN 31: 201711204841.4 32: 2017-11-13

33: CN 31: 201721611250.4 32: 2017-11-27

54: ELECTRONIC DEVICE

00: -

An electronic device is described. The electronic device may include a housing (10), a screen (20) mounted in the housing (10), a screen protector (30) connected to the housing (10), a drive assembly (40) and a controller (90). The screen protector (30) may be connected to the housing (10) and capable of moving between a stretchable state and a retractable state, so that when the screen protector (30) is in the retractable state, the screen protector (30) is leveled with or below the screen (20), and when the screen protector (30) is in the stretchable state, the screen protector (30) is above screen (20). The controller (90) may be electrically connected with a sensor (80) and configured to control screen protector (30) to move between the retractable state and the stretchable state in response to an output of the sensor (30).

21: 2020/01285. 22: 28/02/2020. 43: 2021/07/06

51: A61K; C07K

71: GRITSTONE BIO, INC.

72: FRANCIS, Joshua Michael, GROTENBREG, Gijbert Marnix, JOOSS, Karin, BLAIR, Wade, BULIK-SULLIVAN, Brendan, BUSBY, Jennifer, BUSBY, Michele Anne, SKOBERNE, Mojca, YELENSKY, Roman

33: US 31: 62/547,146 32: 2017-08-18

33: US 31: 62/581,368 32: 2017-11-03

54: ANTIGEN-BINDING PROTEINS TARGETING SHARED ANTIGENS

00: -

Provided herein are HLA-PEPTIDE targets and antigen binding proteins that bind HLA-PEPTIDE targets. Also disclosed are methods for identifying the HLA-PEPTIDE targets as well as identifying one or more antigen binding proteins that bind a given HLA-PEPTIDE target.

21: 2020/01310. 22: 28/02/2020. 43: 2021/06/02

51: H04W

71: GUANGDONG OPPO MOBILE

TELECOMMUNICATIONS CORP., LTD.

72: TANG, HAI

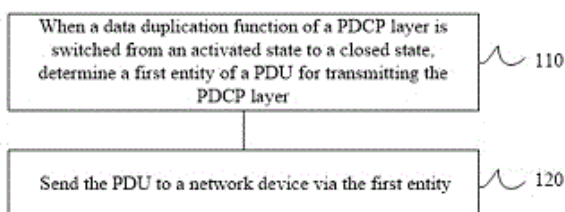
54: DATA TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

00: -

Provided are a data transmission method, a terminal device and a network device. The method comprises: when a data duplication function of a packet data convergence protocol (PDCP) layer is switched from an activated state to a closed state, determining a first entity of a protocol data unit (PDU) for transmitting the PDCP layer; and sending the PDU to a network device via the first entity. In

the data transmission method in the embodiments of the present invention, a terminal device can determine an RLC entity (an RLC entity mapped to an LCG or an RLC entity needing to be mapped to an LCG) of a PDU for transmitting a PDCP layer when a data duplication function of the PDCP layer is switched from an activated state to a closed state, thereby transmitting the PDU of the PDCP layer on the RLC entity mapped to the LCG, and the success rate of data transmission can be effectively improved.

100



21: 2020/01311. 22: 28/02/2020. 43: 2021/06/02

51: A01G; G06Q

71: LINDSAY CORPORATION

72: MILLER, MARK WILLIAM, ELLISON, BRADFORD

33: US 31: 15/684,423 32: 2017-08-23

54: SOFT START MOTOR CONTROL SYSTEM FOR AN IRRIGATION SYSTEM

00: -

An irrigation system broadly comprising a number of irrigation spans and a control system configured to operate single speed drive motors of the irrigation spans in a start-up mode, full speed mode, and wind-down mode. In the start-up mode, the motor controller gradually increases the drive motor speed from 0 rpms to a full speed by ramping a voltage applied to the drive motor from a starting voltage to a full speed voltage according to a start up voltage profile over a start-up time interval. In the full speed mode, the motor controller operates the drive motor at a full speed voltage. In the wind-down mode, the motor controller gradually decreases the drive motor speed from full speed to 0 rpms by ramping the voltage applied to the drive motor from the full speed voltage to an ending voltage according to a wind-down voltage profile over a wind-down time interval.

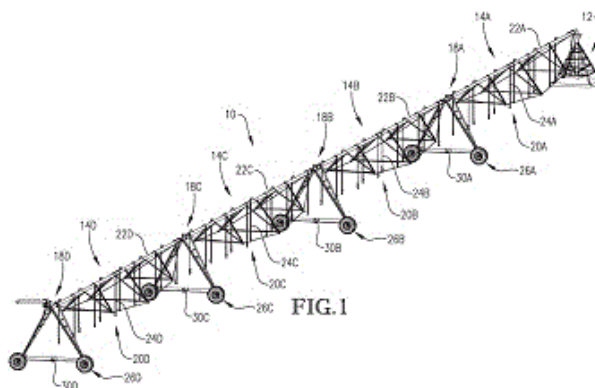


FIG. 1

21: 2020/01312. 22: 28/02/2020. 43: 2021/06/02

51: C12P

71: LANZATECH, INC.

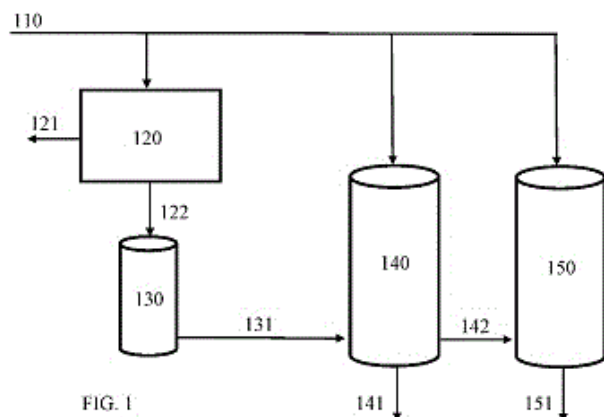
72: CONRADO, ROBERT JOHN, WATERS, GUY WILLIAM, PUGLISI, MATTHEW, CONOLLY, JOSHUA JEREMY

33: US 31: 62/556,099 32: 2017-09-08

54: PROCESSES AND SYSTEMS FOR METABOLITE PRODUCTION USING HYDROGEN RICH C1-CONTAINING SUBSTRATES

00: -

The invention is directed to a process for producing one or more fermentation product in a multi-stage process including an inoculation reactor and at least one bioreactor. The inoculation reactor is fed a C1-containing gaseous substrate containing a reduced amount of hydrogen. The hydrogen is reduced to increase the proportion of CO in the C1-containing gaseous substrate being provided to the inoculation reactor. The inoculation reactor ferments the CO-rich C1-containing gaseous substrate and produces an inoculum, which is fed to at least one bioreactor. The bioreactor receives the C1-containing gaseous substrate, which may or may not contain reduced amounts of hydrogen, to produce one or more fermentation product. By providing a CO-rich C1-containing gaseous substrate to the inoculation reactor, both the inoculation reactor and the subsequent bioreactor(s), are able to have increased stability and product selectivity.



21: 2020/01313. 22: 28/02/2020. 43: 2021/06/02

51: C11D; D06F

71: UNILEVER PLC

72: COOKE, DEBORAH JANE, MOORFIELD, DAVID, SHAW, KATHARINE JANE

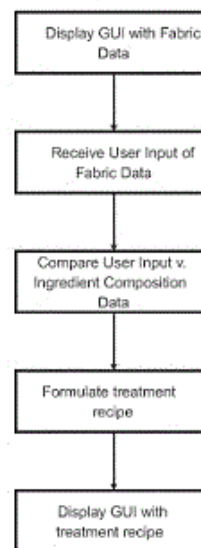
33: EP 31: 17194986.0 32: 2017-10-05

33: EP 31: 17206467.7 32: 2017-12-11

54: METHODS AND DEVICES FOR INDIVIDUALIZED LAUNDRY

00: -

A computer-implemented method for creating a bespoke laundry treatment recipe includes receiving fabric data related to one or more of stain identity, fabric identity, user requirements and user preference; comparing by means of a data processing system said input data with ingredient combination data stored on a non-transitory computer readable storage medium, and formulating one or more laundry treatment recipes, said recipes being bespoke to the user input data; wherein said ingredient combination data comprises: multiple ingredient composition data; multiple combinations of said ingredient compositions; and multiple treatment (e.g. stain) categories related to said ingredient composition combinations.



21: 2020/01314. 22: 28/02/2020. 43: 2021/06/02

51: C07K; A61K; G01N; A61P

71: WUXI BIOLOGICS IRELAND LIMITED

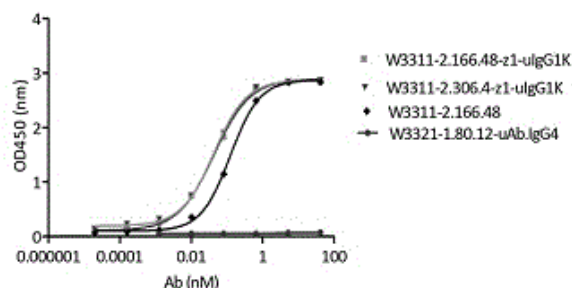
72: LI, JING, MEI, QIN

33: CN 31: PCT/CN2017/102622 32: 2017-09-21

54: NOVEL ANTI-CD3EPSILON ANTIBODIES

00: -

Provided are isolated monoclonal anti-CD3epsilon antibodies or antigen-binding fragments thereof comprising one or more heavy chain CDR sequences selected from the group consisting of: SEQ ID NOs: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, and 47, and/or one or more kappa light chain CDR sequences selected from the group consisting of: SEQ ID NOs: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46 and 48. Further provided are isolated polynucleotides encoding the same, pharmaceutical compositions comprising the same, and the use thereof.



21: 2020/01317. 22: 28/02/2020. 43: 2021/06/02

51: A23C, A23L

71: AGRICULTURAL RESEARCH COUNCIL

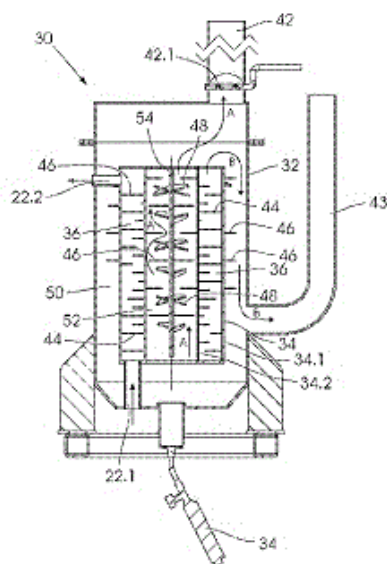
72: WOKADALA, OBIRO CUTHBERT , BRITZ,
PETRUS JOHANNES, SNYMAN, PETRUS
PAULUS HUGO , LEBOTSA, PHALANE SEKINA ,
YU, TINGMIN

33: ZA 31: 2017/05939 32: 2017-08-31

54: PASTEURIZER

00: -

This invention relates to a pasteurizer. In particular, but not exclusively, the invention relates to a pasteurizer which is also suitable for use in pasteurizing soy milk. The pasteurizer includes a pasteurizing chamber in that in turn comprises an outer tank, an annular inner tank substantially concentric to the outer tank, with the annular inner tank defining a pasteurizing section through which the liquid flows. A first heat exchange passage is defined by a hollow core of the annular inner tank, and a second heat exchange passage is defined between an outer surface of the annular inner tank and an inner surface of the outer tank. The pasteurizing chamber can be selectively configured in order for the heating gas to be directed through the first heat exchange passage only, or through both heat exchange passages.



21: 2020/01319. 22: 28/02/2020. 43: 2021/06/02

51: H04W

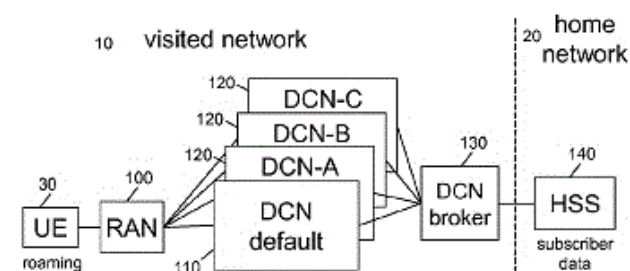
71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

72: TURINA, KLAUS, KLEINFELD, VOLKER

54: CORE NETWORK ALLOCATION HANDLING

00: -

A system, method, node and computer program for allocating a user equipment, UE, (30) roaming in a visited network (10), to a dedicated core network, DCN, (120) out of a plurality of DCN (120) available in the visited network (10), is provided. The method comprises receiving a trigger comprising a DCN-type indicator from a home network (20) of the roaming UE (30), and determining, responsive to the reception of the DCN-type indicator, whether an DCN-type indicated by the received DCN-type indicator is supported by the visited network (10). The method further comprises determining, if the DCN-type is not supported by the visited network (10), an alternative DCN-type supported by the visited network (10) and allocating, by the visited network (10), the roaming UE (30) to a DCN (120) of the alternative DCN-type.



21: 2020/01322. 22: 28/02/2020. 43: 2021/06/02

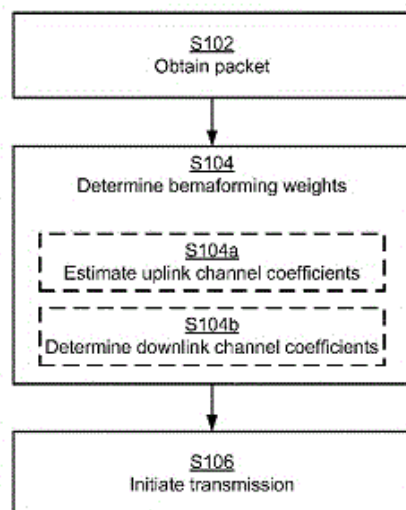
51: H04B

71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)72: NILSSON, THOMAS, KAPETANOVIC,
DZEVDAN**54: INTERFERENCE MITIGATION IN A COMMUNICATIONS NETWORK**

00: -

There is provided mechanisms for mitigating interference in a communications network. A method is performed by a network node. The method comprises obtaining a packet. The packet has been wirelessly received in an uplink direction by a transmission and reception point of the network node and from a packet sender. The packet is indicative of scheduled transmission of a further packet within a predefined time interval from the transmission and reception point has wirelessly received the packet. The method comprises determining beamforming weights such that

interference caused by transmission from the transmission and reception point of the network node in a downlink direction being reversed to the uplink direction is less than a threshold interference value. The method comprises initiating transmission in at least one beam using the determined beamforming weights. The beamforming weights are used for the transmission at least within the predefined time interval.



21: 2020/01323. 22: 28/02/2020. 43: 2021/06/02
51: F24S

71: TENKIV, INC.

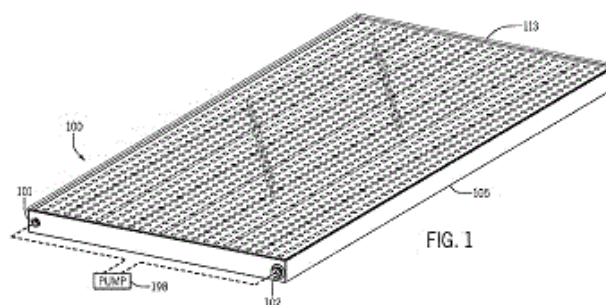
72: JUHASZ, WILLIAM, JUHASZ, ZACHARY

33: US 31: 62/542,409 32: 2017-08-08

54: ENERGY COLLECTOR

00: -

An energy collector is disclosed. The energy collector contains an absorber and a working fluid. The working fluid is held in a state of two-phase equilibrium to minimize sensible heating and thus heat losses to the environment. The energy collector may be held under a vacuum to further prevent heat losses to the ambient environment. One or more energy collectors may be connected to other energy collectors, end uses, or thermal energy storage.



21: 2020/01340. 22: 02/03/2020. 43: 2021/06/02
51: C07D; A61P; A61K

71: TAKEDA PHARMACEUTICAL COMPANY LIMITED

72: KAJITA, YUICHI, MIKAMI, SATOSHI, MIYANO HANA, YUHEI, KOIKE, TATSUKI, DAINI, MASAKI, OYABU, NORIO, OGINO, MASAKI, TAKEUCHI, KOHEI, ITO, YOSHITERU, TOKUNAGA, NORIHITO, SUGIMOTO, TAKAHIRO, MIYAZAKI, TOHRU, ODA, TSUNEO, HOASHI, YASUTAKA, HATTORI, YASUSHI, IMAMURA, KEISUKE

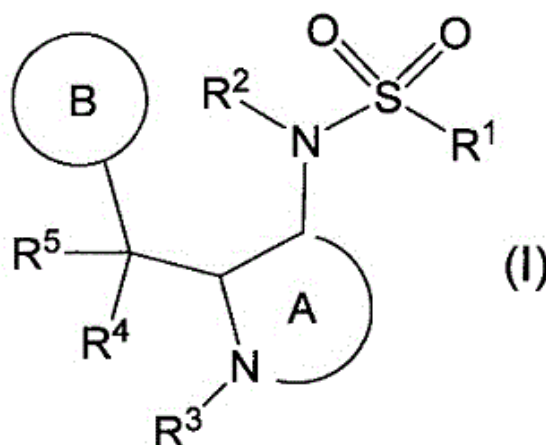
33: JP 31: 2017-248495 32: 2017-12-25

33: JP 31: 2017-150685 32: 2017-08-03

54: HETEROCYCLIC COMPOUND AND USE THEREOF

00: -

The present invention provides a heterocyclic compound having an orexin type 2 receptor agonist activity. A compound represented by the formula (I) : wherein each symbol is as described in the specification, or a salt thereof, is useful as an agent for the prophylaxis treatment of narcolepsy.



21: 2020/01394. 22: 04/03/2020. 43: 2021/06/02
51: H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

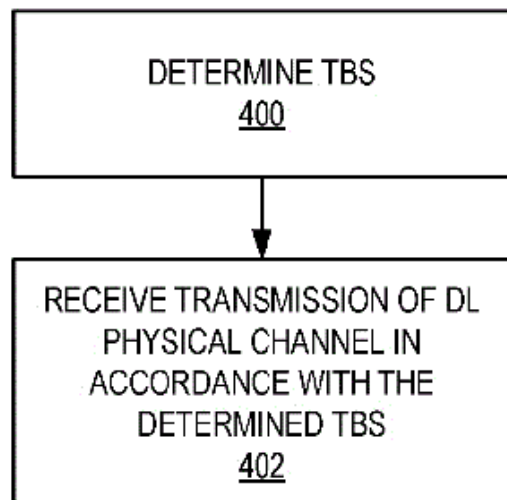
72: ANDERSSON, MATTIAS, BLANKENSHIP,
YUFEI, SANDBERG, SARA

33: US 31: 62/567,638 32: 2017-10-03

54: TBS DETERMINATION WITH MULTIPLE BASE GRAPHS

00: -

Systems and methods are disclosed herein for determining and using a Transport Block Size (TBS) when two or more Low Density Parity Check (LDPC) base graphs can be used for LDPC coding. In some embodiments, a method comprises determining a Transport Block Size (TBS) for a transport block communicated between a network node and a wireless device via a physical channel transmission using a formula such that code block segmentation of the transport block results in equal sized code blocks independent of which of two different LDPC base graphs is used for the code block segmentation. The method further comprises transmitting or receiving the transport block according to the determined TBS.



21: 2020/01395. 22: 04/03/2020. 43: 2021/06/02
51: A61K; A01N; A61Q

71: UNILEVER PLC

72: AGARKHED, AJIT MANOHAR, BAPAT, MOHINI
ANAND, CHANDAR, PREM, GANDHI, POONAM
MANOJ, SHILOACH, ANAT, WU, GUOHUI

33: EP 31: 17198910.6 32: 2017-10-27

54: NON-SOAP LIQUID CLEANSER COMPOSITION COMPRISING CAPRYLIC ACID

00: -

This invention relates to syndet-based compositions having pH of 4.5 to 5.5 wherein use of caprylic acid has been unexpectedly found to enhance bacterial kill.

21: 2020/01396. 22: 04/03/2020. 43: 2021/06/02
51: H04L; H04B

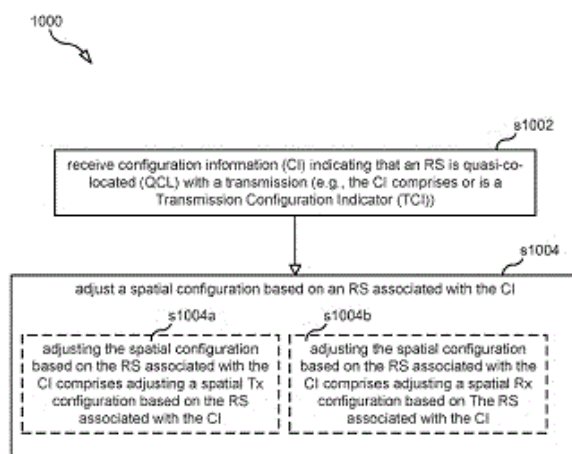
71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

72: GRANT, STEPHEN, FRENNE, MATTIAS,
FAXÉR, SEBASTIAN, NILSSON, ANDREAS,
NORY, RAVIKIRAN, WERNERSSON, NIKLAS
33: US 31: 62/556,940 32: 2017-09-11

54: UNIFIED UL AND DL BEAM INDICATION

00: -

A user equipment (UE) the UE being configured to receive a message comprising configuration information, CI, indicating that a reference signal, RS, is quasi-co-located, QCL, with a transmission; and adjust a spatial Tx configuration for the transmission based on an RS associated with the received CI.



21: 2020/01423. 22: 05/03/2020. 43: 2021/06/14
51: F42C

71: Luis Eduardo TOBÓN TRUJILLO

72: TOBÓN TRUJILLO, Luis Eduardo

33: CO 31: NC2017/0008406 32: 2017-08-17

54: ELECTROMECHANICAL CONTACT FUSE FOR MULTI-PURPOSE AIRCRAFT AMMUNITION

00: -

The present invention relates to the military field. It discloses a contact fuse for multi-purpose aircraft ammunition, characterised in that it comprises an electromechanical arming system that is easy to

manufacture and does not contain any explosive material inside of same. In addition, said fuse is characterised in that it comprises an alert system that reveals a possibly unsafe condition on the ground and in that it is structurally straightforward to manufacture.

7

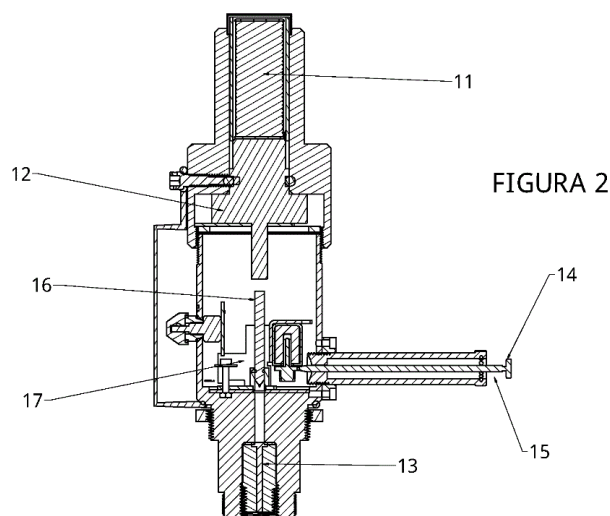


FIGURA 2

21: 2020/01531. 22: 11/03/2020. 43: 2021/07/06

51: A61K; C12Q; G01N; G06F

71: GRITSTONE BIO, INC.

72: YELENSKY, Roman, BULIK-SULLIVAN, Brendan, BUSBY, Jennifer, DAVIS, Matthew Joseph, YOUNG, Lauren Elizabeth, FRANCIS, Joshua Michael, PALMER, Christine, SKOBERNE, Mojca

33: US 31: 62/554,286 32: 2017-09-05

33: US 31: 62/579,734 32: 2017-10-31

33: US 31: 62/644,191 32: 2018-03-16

33: US 31: 62/703,197 32: 2018-07-25

54: NEOANTIGEN IDENTIFICATION FOR T-CELL THERAPY

00: -

A method for identifying T-cells that are antigen-specific for at least one neoantigen that is likely to be presented on surfaces of tumor cells of a subject. Peptide sequences of tumor neoantigens are obtained by sequencing the tumor cells of the subject. The peptide sequences are input into a machine-learned presentation model to generate presentation likelihoods for the tumor neoantigens, each presentation likelihood representing the likelihood that a neoantigen is presented by an MHC allele on the surfaces of the tumor cells of the subject. A subset of the neoantigens is selected

based on the presentation likelihoods. T-cells that are antigen-specific for at least one of the neoantigens in the subset are identified. These T-cells can be expanded for use in T-cell therapy. TCRs of these identified T-cells can also be sequenced and cloned into new T-cells for use in T-cell therapy.

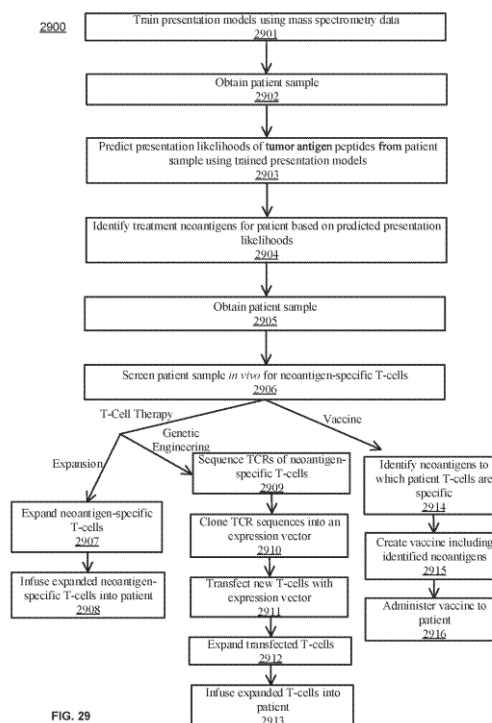


FIG. 29

21: 2020/01610. 22: 13/03/2020. 43: 2021/06/02

51: C07F; C08F

71: VERSALIS S.P.A.

72: PAMPALONI, GUIDO, RICCI, GIOVANNI, SOMMAZZI, ANNA, GUELF, MASSIMO, LEONE, GIUSEPPE, MASI, FRANCESCO

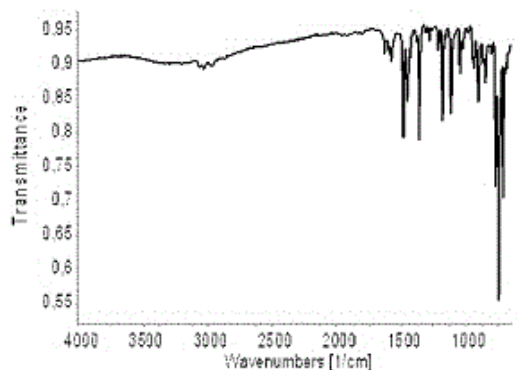
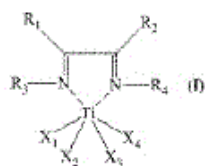
33: IT 31: 102017000109176 32: 2017-09-29

54: BIS-IMINE TITANIUM COMPLEX, CATALYTIC SYSTEM COMPRISING SAID BIS-IMINE TITANIUM COMPLEX AND PROCESS FOR THE (CO)POLYMERIZATION OF CONJUGATED DIENES

00: -

Bis-imine titanium complex having general formula (I): wherein: R₁ and R₂, mutually identical or different, represent a hydrogen atom; or are selected from linear or branched, optionally halogenated, C₁-C₂₀alkyl groups, preferably C₁-C₁₅, optionally substituted cycloalkyl groups; R₃ and R₄, mutually

identical or different, represent a hydrogen atom; or are selected from linear or branched, optionally halogenated, C₁-C₂₀alkyl groups, preferably C₁-C₁₅, optionally substituted cycloalkyl groups, optionally substituted aryl groups; X₁, X₂, X₃ and X₄, mutually identical or different, represent a halogen atom such as chlorine, bromine, iodine; or are selected from linear or branched C₁-C₂₀alkyl groups, preferably C₁-C₁₅, -OCOR₅ groups or -OR₅ groups wherein R₅ is selected from linear or branched C₁-C₂₀alkyl groups, preferably C₁-C₁₅; or represent an acetylacetonate group (acac); provided that when R₁ and R₂ represent a methyl group and X₁, X₂, X₃ and X₄ represent a chlorine atom, R₃ and R₄ are different from 2,6-di-/so-propylphenyl.



21: 2020/01646. 22: 16/03/2020. 43: 2021/06/02
51: A61K; A61P
71: CYMABAY THERAPEUTICS, INC.
72: BOUDES, POL, MCWHERTER, CHARLES A, STEINBERG, ALEXANDRA S
33: US 31: 62/563,395 32: 2017-09-26
54: TREATMENT OF CHOLESTATIC PRURITUS
00: -
Treatment of cholestatic pruritus by therapy with seladelpar or a salt thereof.

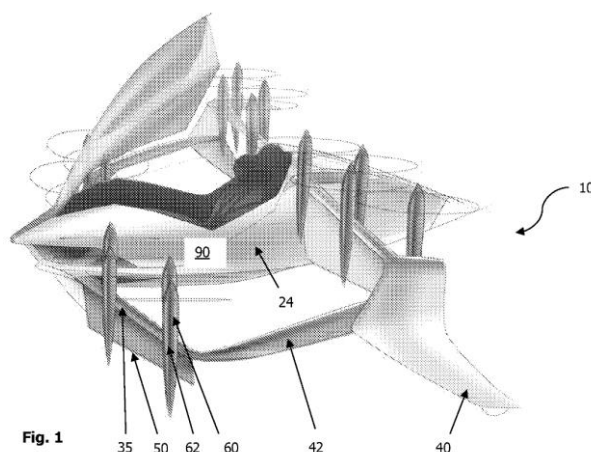
21: 2020/01683. 22: 17/03/2020. 43: 2021/06/03
51: B64C
71: AMSL INNOVATIONS PTY LTD
72: MOORE, Andrew Dudley

33: AU 31: 2017903864 32: 2017-09-22
33: AU 31: 2017904036 32: 2017-10-06
33: AU 31: 2018901154 32: 2018-04-06

54: WING TILT ACTUATION SYSTEM FOR ELECTRIC VERTICAL TAKE-OFF AND LANDING (VTOL) AIRCRAFT

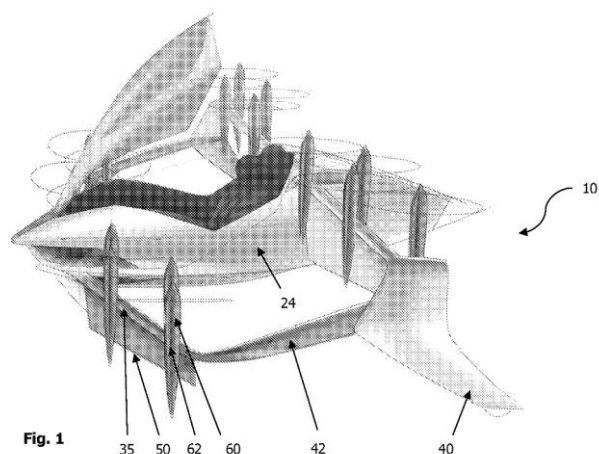
00: -

A vertical take-off and landing (VTOL) aircraft (10) includes a fuselage and first and second forward wings (20, 22), each wing (20, 22) having a fixed leading edge and a trailing control surface (50) which is pivotal about a generally horizontal pivot axis. The aircraft (10) includes first and second electric motors (60) each having rotors (70), the electric rotors (70) being pivotal with the trailing control surface (50) between a first position in which each rotor (70) has a generally vertical axis of rotation, and a second position in which each rotor (70) has a generally horizontal axis of rotation, a control system (90) is configured to selectively operate the first electric motor (60) and the second electric motor (60) at different rotational speeds to generate a turning moment to pivot the control surface (50) about the pivot axis (33).



21: 2020/01684. 22: 17/03/2020. 43: 2021/06/03
51: B64C
71: AMSL INNOVATIONS PTY LTD
72: MOORE, Andrew Dudley
33: AU 31: 2017903864 32: 2017-09-22
33: AU 31: 2017904036 32: 2017-10-06
33: AU 31: 2018901154 32: 2018-04-06
54: WING TILT ACTUATION SYSTEM FOR ELECTRIC VERTICAL TAKE-OFF AND LANDING (VTOL) AIRCRAFT
00: -

A vertical take-off and landing (VTOL) aircraft (10) comprises a fuselage (24) first and second forward wings (20, 22) and first and second rearward wings (30, 32), each wing having a fixed leading edge (25, 35) and a trailing control surface (50) which is pivotal about a generally horizontal axis. Electric rotors (60) are mounted to the wings (20, 22, 30, 32), the electric rotors (60) being pivotal with the trailing control surface (50) between a first position in which each rotor (60) has a generally vertical axis of rotation, and a second position in which each rotor (60) has a generally horizontal axis of rotation; wherein at least one of the wings (20, 22, 30, 32) has a first and a second electric rotor (60) which are each mounted having non-parallel axes of rotation so that the thrust lines of the first and second electric rotors are different.



21: 2020/01711. 22: 18/03/2020. 43: 2021/06/02
51: F42B

71: RUAG AMMOTEC AG

72: MUSTER, MICHAEL

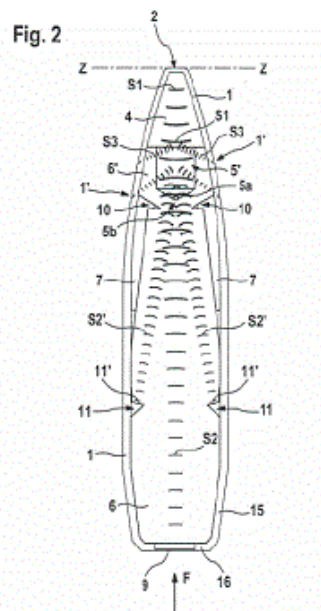
33: IB 31: PCT/IB2017/055447 32: 2017-09-09

54: FULL METAL JACKET SAFETY BULLET, IN PARTICULAR FOR MULTI-PURPOSE APPLICATIONS

00: -

In the transportation and handling of ammunition, the risk level is determined based on the amount of explosive used. This sets legal limits, for example for air transport, which are barely sufficient for a testing of bullets. With a targeted directing of shock waves, resulting from impacting on a target, high compressions occur on multiple sides in the active body (5'), which reliably initiate said active body without further auxiliary means or auxiliary materials.

The object according to the invention achieves great savings in explosive material, without any loss in effectiveness, and significantly increases safety during transportation and handling.



21: 2020/01712. 22: 18/03/2020. 43: 2021/06/02

51: F24S; C22C; F28F

71: HAYNES INTERNATIONAL, INC., ICL-IP AMERICA INC.

72: DEODESHMUKH, VINAY, EFFENBERGER, REINHARD

33: US 31: 62/572,059 32: 2017-10-13

54: SOLAR TOWER SYSTEM CONTAINING MOLTEN CHLORIDE SALTS

00: -

A solar tower system is disclosed in which the heat transfer media is a molten salt at a temperature greater than 650°C. The components that carry or hold the molten salt are made from commercially available alloys made by Haynes International and sold under the designations HR-120® alloy, 230® alloy and 233™ alloy whose compositions are described herein. The molten salt preferably is MgCl₂-KCl.

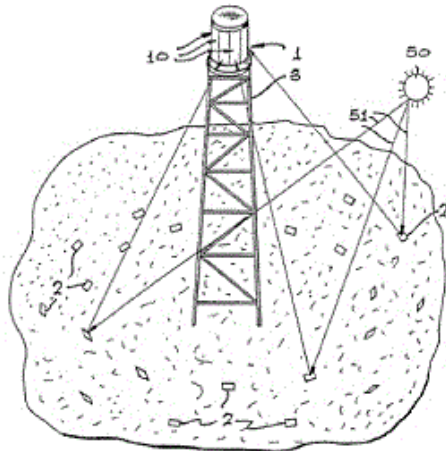


Fig. 1

(Prior Art)

21: 2020/01788. 22: 20/03/2020. 43: 2021/06/02

51: H04W

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: YANG, NING

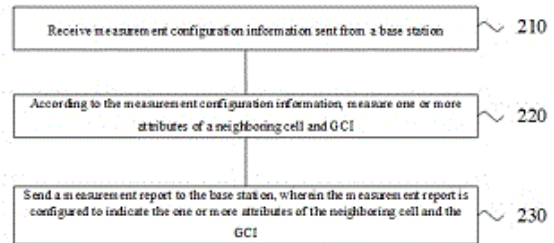
33: CN 31: PCT/CN2017/101585 32: 2017-09-13

**54: METHOD FOR CONFIGURING ANR,
TERMINAL DEVICE, BASE STATION, AND CORE
NETWORK DEVICE**

00: -

Provided are a method for configuring an ANR, a terminal device, a base station, and a core network device, which are capable of measuring some new attributes supporting eLTE communication and NR communication in neighboring cells such as cells supporting LTE communication, cells supporting eLTE communication, and cells supporting NR communication, thus complying with requirements for an ANR function in 5G communication. The method comprises: receiving measurement configuration information sent by a base station; measuring attributes of a neighboring cell and a GCI according to the measurement configuration information; and sending a measurement report to the base station, wherein the measurement report is used for indicating the attributes of the neighboring cell and the GCI.

200



21: 2020/01789. 22: 20/03/2020. 43: 2021/06/02

51: C12G

71: DELLA TOFFOLA S.P.A.

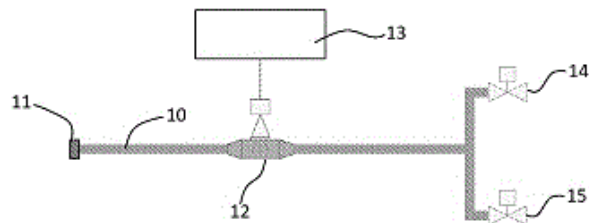
72: DELLA TOFFOLA, GIACOMO, AMAMI,
YACINE, COMIN, LUCA

33: IT 31: 102017000096325 32: 2017-08-25

**54: METHOD AND APPARATUS FOR
CONTROLLING A WINEMAKING PROCESS**

00: -

A control method and an associated apparatus for a winemaking process, wherein a must obtained from the pressing step is sent to one of a plurality of fermentation tanks or a must is taken from a maceration and fermentation tank. The method comprises the steps of: - preselecting at least one colorimetric value of the said must; - colorimetrically measuring the must; - comparing the colorimetric value measured with said preselected value and - in the case of a deviation by a predefined amount between said two values: • sending said must obtained from the pressing step to a second tank different from the one said must was directed to; • stopping the maceration and fermentation of said must taken from the maceration and fermentation tank and transferring it into an aging tank or barrel.



21: 2020/01792. 22: 20/03/2020. 43: 2021/06/02

51: A61G; A47C

71: SINCLAIR, MARK

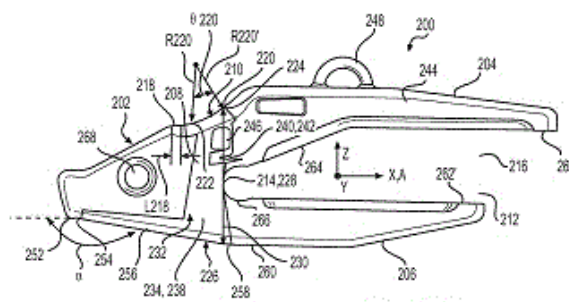
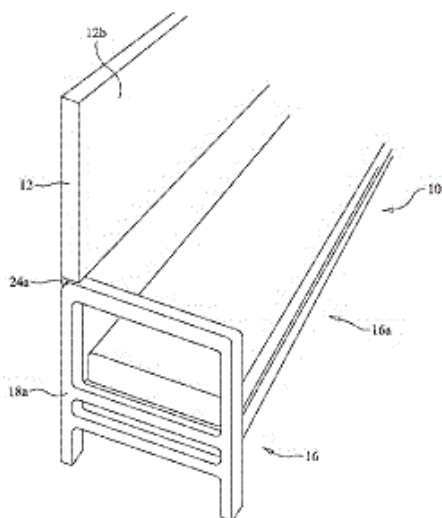
72: SINCLAIR, MARK

33: US 31: 15/684,368 32: 2017-08-23

54: CONVERTIBLE EXAMINATION TABLE

00: -

There is provided herein an examination table that is capable of being converted to render either an examination configuration or a seating configuration. The table includes a planar table member having a suitable surface for the examination of a subject and is adjustable between a horizontal orientation for medical evaluation of the subject and a vertical orientation when in the table member is not in use for exams.

21: 2020/01813. 22: 23/03/2020. 43: 2021/06/02
51: E02F

71: CATERPILLAR INC.

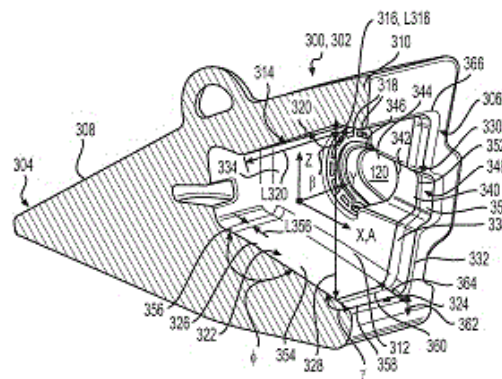
72: BALAN, MIHAI M, SERRURIER, DOUGLAS C,
WORTH, DAVID

33: US 31: 15/690,561 32: 2017-08-30

54: HEAVY DUTY TIP

00: -

A tip (300) defining a cavity (312) for being attached to a work implement (110) comprises a body (302) that defines a cavity (312) with a cavity upper flat portion length (L316) ranging from 5 mm to 20 mm, or a cavity side transition surface (332) configured to avoid interference with a tip adapter (200), or a cavity first lower planar surface (354) that forms an oblique angle (Φ) with the cavity second lower planar surface (356).

21: 2020/01835. 22: 23/03/2020. 43: 2021/06/02
51: C08H; C07C71: SÖDRA SKOGSÄGARNA EKONOMISK
FÖRENING

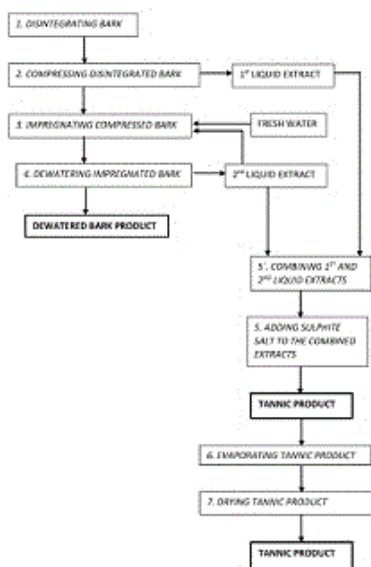
72: SOLHAGE, FREDRIK, MESIC, NARCIS

33: EP 31: 17190555.7 32: 2017-09-12

54: METHOD FOR PRODUCTION OF AT LEAST ONE TANNIC PRODUCT AND A BARK PRODUCT WITH ENHANCED FUEL VALUE

00: -

A method for production of at least one tannic product and a bark product having enhanced fuel value is disclosed. According to the invention the method comprises the steps of disintegrating bark; compressing the disintegrated bark to recover a first liquid extract comprising tannic substances; impregnating the compressed bark with a first aqueous impregnation composition at a pH below 7, and at temperature within the range of 45-80°C; dewatering the impregnated bark to recover a second liquid extract comprising tannic substances and a dewatered bark product; recirculating at least a part of the second liquid extract to the impregnation step, wherein the first aqueous impregnation composition comprises a mixture of said recirculated part of the second liquid extract and optionally fresh water; optionally combining said first liquid extract with the non-recirculated part of said second liquid extract; and adding sulphite salt to said first liquid extract and to said non-recirculated part of said second liquid extract, or to the optionally combined first and second liquid extracts in a level of 1-25% by weight for providing a first tannic product and a second tannic product, or a combined tannic product. Also the tannic product and the bark product obtained from the method is disclosed.



21: 2020/01837. 22: 23/03/2020. 43: 2021/06/02
 51: A61K; A61Q
 71: UNILEVER PLC
 72: AVERY, ANDREW RICHARD
 33: EP 31: 17199284.5 32: 2017-10-30

54: HAIR CONDITIONING COMPOSITION

00: -

A hair care composition obtainable by blending a conditioning gel phase with an aqueous emulsion of a non-linear organopolysiloxane comprising monomer units of silsesquioxane having a formula $(RSiO_{3/2})_n$ where $n = 1$, R is an alkyl group, preferably methyl, ethyl or propyl, and copolymer segments of polydialkylsiloxane; the conditioning gel phase being formed from a cationic surfactant, a high melting point (25°C or higher) fatty compound and an aqueous carrier; and the aqueous emulsion of the non-linear organopolysiloxane having an aqueous continuous phase consisting of water and a blend of non-ionic and cationic surfactants and a dispersed phase consisting of the non-linear organopolysiloxane and a hydrocarbon oil, wherein the weight ratio of the non-linear organopolysiloxane to the hydrocarbon oil is 40:60 to 65:35. Alternatively, the aqueous continuous phase consists of water and a cationic surfactant.

21: 2020/01927. 22: 24/03/2020. 43: 2021/06/02
 51: C07K; A61K
 71: CELLTRION INC.
 72: KIM, SUN JUNG, SUH, JEE HYE, AN, HYUN CHUL, LEE, SUNG YOUNG
 33: KR 31: 10-2017-0144521 32: 2017-11-01
 33: KR 31: 10-2018-0017449 32: 2018-02-13
 33: KR 31: 10-2017-0110426 32: 2017-08-30

54: METHOD FOR TREATING TNF ALPHA-RELATED DISEASE

00: -

The present invention relates to a method for treating a TNF α -related disease by subcutaneously administering an antibody (anti-TNF α antibody) or an antigen-binding fragment thereof that binds to TNF α . The treatment method, composition, kit or use thereof according to the present invention provides an advantage of increased patient satisfaction, through the improvement of convenience and enhancement of the quality of life, by reducing the time taken for administration compared to intravenous injections and decreasing the time that patients stay in a hospital.

21: 2020/01929. 22: 24/03/2020. 43: 2021/06/02
 51: D21H
 71: KEMIRA OYJ, UNIVERSITY OF COPENHAGEN
 72: SIMELL, JAAKKO, KOLARI, MARKO,
 GIVSKOV, MICHAEL, TOLKER-NIELSEN, TIM,
 RYBTKE, MORTEN LEVIN, ANDERSEN, JENS BO
 33: EP 31: 17188321.8 32: 2017-08-29
**54: METHOD FOR CONTROLLING GROWTH OF
 MICROORGANISMS AND/OR BIOFILMS IN AN
 INDUSTRIAL PROCESS**

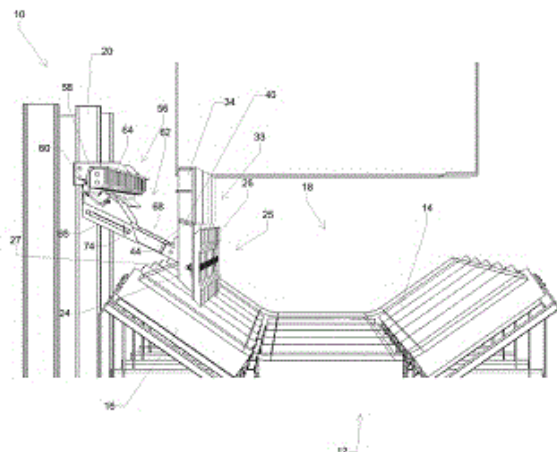
00: -

The invention relates to a method for controlling of a biofilm, for removing of a formed biofilm and/or for controlling a growth of microorganisms, preferably bacteria, in an aqueous environment of an industrial manufacturing process comprising cellulosic fibre material. In the method a composition comprising a compound selected from a group consisting of 3-[(4-methylphenyl)sulphonyl]-2-propenenitrile and 4-amino-N-2-thiazolyl-benzenesulphonamide is administered to the aqueous environment of the process.

21: 2020/01932. 22: 24/03/2020. 43: 2021/06/02
 51: B65G; E21F; E21D
 71: CPC ENGINEERING PTY LTD
 72: WARNER, GRAHAM TREVOR, BELL, RONALD
 THOMAS, LLOYD, BRAD MICHAEL JOHN
 33: AU 31: 2017903475 32: 2017-08-28
54: CONVEYOR SKIRT SYSTEM

00: -

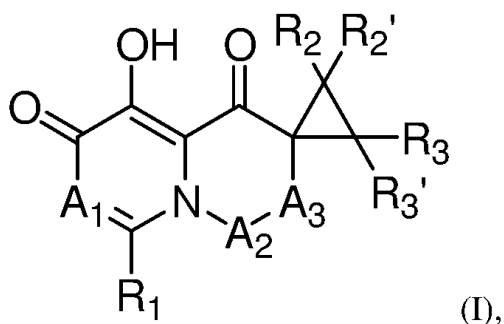
In accordance with the present invention, there is provided a conveyor skirt system, the system comprising: a support member (33); a series of skirting panels (24) releasably fixed to the support member (33); a rail assembly (56) positioned outside the conveyor, extending in a direction substantially parallel to the direction of the conveyor; and a trolley assembly (62) mounted on the rail assembly (56), the trolley assembly 62 being adapted to engage and support one or more of the skirting panels (24).



21: 2020/02037. 22: 04/05/2020. 43: 2021/07/01
 51: C07D
 71: TAIGEN BIOTECHNOLOGY CO., LTD.
 72: HSU, Ming-Chu, LIN, Chu-Chung, CHEN, Hung-
 Chuan, CHIANG, Chiayn, YEN, Chi-Feng
 33: US 31: 62/620,065 32: 2018-01-22
**54: CAP-DEPENDENT ENDONUCLEASE
 INHIBITORS**

00: -

Provided is a compound of Formula (I) below, or a pharmaceutically acceptable salt, metabolite, or prodrug thereof; wherein Formula (I): A1 is CR⁴ or N; A2 is CR⁵ R⁶' or NR⁷' ; A3 is CR⁵ R⁶' or NR⁷' ; each of R¹, R², R²', R³, R³', R⁴, R⁵, R⁵', R⁶, R⁶', R⁷, and R⁷', independently, is hydrogen, deuterium, halogen, cyano, hydroxyl, carboxyl, amino, formyl, nitro, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C1-6 alkoxy, C2-6 alkenyloxy, C1-6 alkylcarbonyl, C1-6 alkyloxycarbonyl, C1-6 alkylamine, C3-20 carbocyclyl, or C3-20 heterocyclyl; or R⁵ and R⁶, R⁵' and R⁶', or R⁵ and R⁵', together with the adjacent atom to which they are each attached, form C3-10 carbocyclyl or C3-10 heterocyclyl. Further provided are a method of using the above-described compound, or the pharmaceutically acceptable salt, metabolite, or prodrug thereof for treating influenza and a pharmaceutical composition containing same.



21: 2020/02055. 22: 04/05/2020. 43: 2021/07/01
51: F24F; F28F

71: WISE EARTH PTY LTD

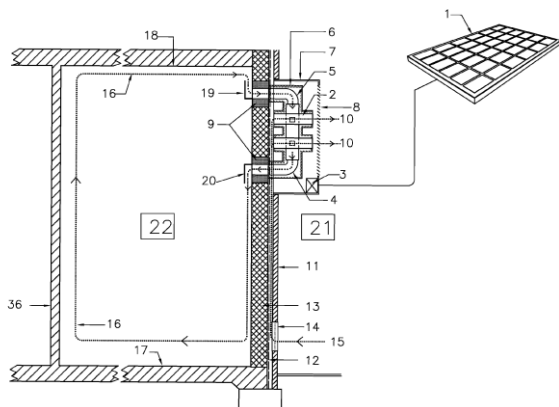
72: BAVERSTOCK, Garry Frederick, PAOLINO, Sam Peter, LUCKS, Stephen Frederick

33: AU 31: 2017904157 32: 2017-10-13

54: AIR CONDITIONING MODULE

00: -

The present invention relates to an air conditioning module comprising a thermo electric cell having a first side and a second side; an conditioning duct attached to the first side of the thermo electric cell; and an exhaust duct attached to the second side of the thermoelectric cell; wherein the conditioning duct receives and conditions air from a room, and the exhaust duct vents unwanted thermal energy.



21: 2020/02143. 22: 04/05/2020. 43: 2021/07/02
51: G06Q; H04W

71: QUANTUM A RUS LLC

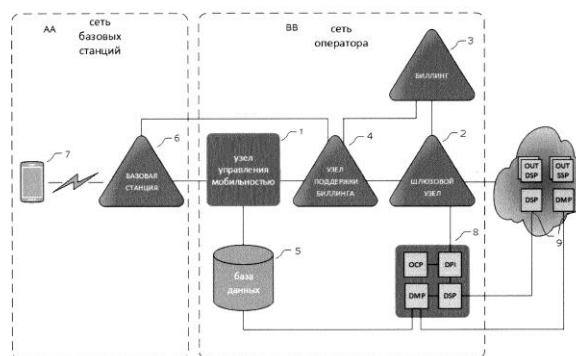
72: GILEB, Svetlana Ivanovna

33: RU 31: 2017130975 32: 2017-09-01

54: MOBILE ADVERTISING SYSTEM

00: -

The invention being proposed relates to the field of telecommunications and communications, in particular to systems which can be used in cellular networks for providing additional communication services, and is intended for increasing the speed of transmission of packet data and supplying same to a subscriber in an internal operator network. The proposed system provides control of an available bandwidth of communication channels of an internal operator network by monitoring incoming TCP/IP traffic in an additional node of a cellular network, said node allowing editing of external advertising content, accelerated production of a targeted advertisement in accordance with data of subscribers of the cellular network, and effective delivery of said targeted advertisement to subscribers. The proposed functionality of the mobile advertising system can be focused on the standardized networking network nodes GSM and LTE.



Фиг. 1

AA Base station network
BB Operator network
1 Mobility control node
2 Gateway node
3 Billing
4 Billing support node
5 Database
6 Base station

21: 2020/02162. 22: 04/05/2020. 43: 2021/03/15
51: A63B; A63H

71: MEJJJET HOLDINGS PTY LTD

72: Edward HOLDEN

33: IB 31: PCT/AU2018/050106 32: 2018-02-09

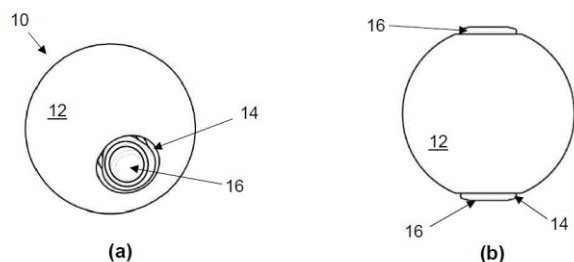
33: AU 31: 2017904076 32: 2017-10-10

54: BALL TOY

00: -

A ball toy having a solid, resiliently flexible body is disclosed. The body is penetrated by a bore, wherein bearing means are mounted, defining a

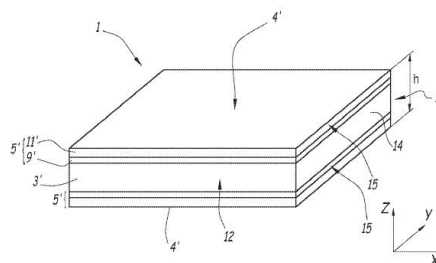
rotational axis of the body therein. The bore has a bore closure at each end, mechanical connection means connecting each closure to the bearing means. The body is able to spin on said axis relative to the closures, when the closures are held in a pinching manner by a user. The body is made of a thermoplastic rubber of selected hardness properties, giving it excellent bouncing performance, with unpredictability of bouncing direction resulting from the spinning of the body.



21: 2020/02311. 22: 04/05/2020. 43: 2021/07/02
51: B23K; B32B; C22C
71: ARCELORMITTAL
72: Francis SCHMIT, Quentin BERNARDI
33: IB 31: PCT/IB2017/056546 32: 2017-10-20
54: METHOD FOR PRODUCING A PRECOATED STEEL SHEET AND ASSOCIATED SHEET
00: -

Method for producing a precoated steel sheet (1) comprising: - providing a precoated steel strip comprising a steel substrate (3) having, on at least one of its main faces, a precoating comprising an intermetallic alloy layer and a metallic alloy layer, the metallic alloy layer being a layer of aluminum, a layer of aluminum alloy or a layer of aluminum-based alloy, - laser cutting said precoated steel strip so as to obtain at least one precoated steel sheet (1) comprising a cut edge surface (13) resulting from the cutting operation, the cut edge surface (13) comprising a substrate region (14) and a precoating region (15) and the thickness of the precoated steel sheet (1) being comprised between 0.8 mm and 5 mm. The laser cutting is carried out such that it results directly in a corrosion-improved zone (19) of the cut edge surface (13). The surface fraction of aluminum on the substrate region (14) of the corrosion-improved zone (19) is greater than or equal to 9% and the surface fraction of aluminum on the bottom half of the substrate region (14) of the

corrosion-improved zone (19) is greater than or equal to 0.5%.



21: 2020/02313. 22: 04/05/2020. 43: 2021/07/02
51: C21D; C22C; C23C
71: ARCELORMITTAL
72: Jean-Marc PIPARD, Artem ARLAZAROV
33: IB 31: PCT/IB2017/057042 32: 2017-11-10
54: COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF
00: -

A cold rolled and heat treated steel sheet having a composition comprising of the following elements, expressed in percentage by weight 0.10 % = Carbon = 0.5 %, 1 % = Manganese = 3.4 %, 0.5 % = Silicon = 2.5 %, 0.03 % = Aluminum = 1.5%, Sulfur = 0.003 %, 0.002 % = Phosphorus = 0.02 %, Nitrogen = 0.01% and can contain one or more of the following optional elements 0.05 % = Chromium = 1 %, 0.001 % = Molybdenum = 0.5 %, 0.001 % = Niobium = 0.1 %, 0.001 % = Titanium = 0.1 %, 0.01 % = Copper = 2 %, 0.01 % = Nickel = 3 %, 0.0001 % = Calcium = 0.005 %, Vanadium = 0.1 %, Boron = 0.003 %, Cerium= 0.1 %, Magnesium= 0.010 %, Zirconium= 0.010 % the remainder composition being composed of iron and the unavoidable impurities caused by processing, and a microstructure of the said rolled steel sheet comprises by area fraction, 10 to 30% Residual Austenite, 5 to 50% Annealed Bainite, 10 to 40 % of Bainite, 1% to 20% Quenched Martensite, and less than 30 % Tempered Martensite where the combined presence of Bainite and Residual Austenite shall be 30% or more.

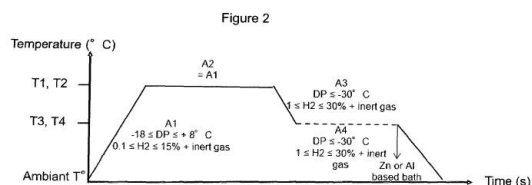
21: 2020/02314. 22: 04/05/2020. 43: 2021/07/02
51: C21D; C22C; C23C
71: ARCELORMITTAL
72: David ZAPICO ALVAREZ, Florence BERTRAND, Joris GIROUX

33: IB 31: PCT/IB2017/001351 32: 2017-11-08

54: A HOT-DIP COATED STEEL SHEET

00: -

The present invention relates to a method for the manufacture of a hot-dip coated steel sheet coated with a zinc or an aluminum based coating comprising the provision of a specific steel sheet, a recrystallization annealing and a hot-dip coating; the hot dip coated steel sheet and the use of said hot-dip coated steel sheet.



21: 2020/02356. 22: 2020/05/04. 43: 2021/07/16

51: C10B; C10G; C10L

71: INDIAN OIL CORPORATION LIMITED

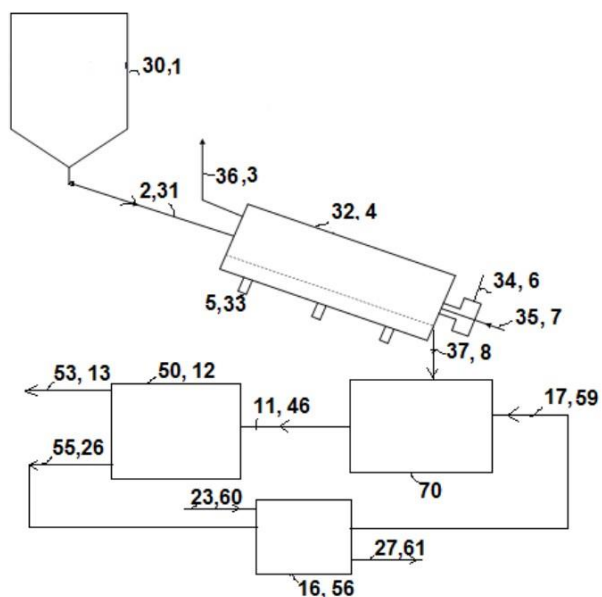
72: PRADEEP, PONOLY RAMACHANDRAN, MONDAL, PRANTIK, PRASAD, TERAPALLI HARI VENKATA DEVI, DAS, SATYEN KUMAR, SAU, MADHUSUDAN, MAZUMDAR, SANJIV KUMAR, RAMAKUMAR, SANKARA SRI VENKATA

33: IN 31: 20191020973 32: 2019-05-27

54: A PROCESS FOR CONVERSION OF FUEL GRADE COKE TO ANODE GRADE COKE

00: -

The present invention relates to a conversion of fuel grade coke produced through thermal cracking of heavy petroleum residue to anode grade coke. More specifically, the present invention provides a process which employs high sulfur fuel grade coke as the feedstock to produce low sulfur coke which can be used to manufacture electrodes for use in aluminium industry. Further, the invention also relates to a system for removal of metal content from coke and conversion of fuel grade coke to anode grade coke.



21: 2020/02381. 22: 04/05/2020. 43: 2021/07/02

51: C23C

71: ARCELORMITTAL

72: Michel BORDIGNON, Jonas STAUDTE

33: IB 31: PCT/IB2017/058107 32: 2017-12-19

54: A HOT-DIP COATED STEEL SUBSTRATE

00: -

The present invention relates to a hot-dip coated steel substrate and a method for the manufacture of this hot-dip coated steel substrate.

21: 2020/02382. 22: 04/05/2020. 43: 2021/07/02

51: C21D; C22C

71: ARCELORMITTAL

72: Kangying ZHU, Astrid PERLADE, Coralie JUNG, Frédéric KEGEL

54: COLD ROLLED AND ANNEALED STEEL SHEET AND METHOD OF MANUFACTURING THE SAME

00: -

The invention deals with a cold-rolled and heat-treated steel sheet, made of a steel having a composition comprising, by weight percent: C : 0.03 - 0.25 % Mn : 3.5 - 8 % Si : 0.5 - 2.0 % Al : 0.03 - 2.0 % Ti < 0.080 % Nb < 0.080 % V < 0.2 % V + Ti + Nb > 0.01 % S < 0.010 % P < 0.020 % N < 0.008 % and comprising optionally one or more of the following elements, in weight percentage: Mo : 0.1 - 0.5 % Cr : 0.01 - 1 % B : 0.0005 - 0.004 % the remainder of the composition being iron and unavoidable impurities resulting from the smelting, said cold-rolled steel sheet having a microstructure consisting of, in

surface fraction: - between 10% and 30% of retained austenite, said retained austenite being present as films having an aspect ratio of at least 3 and as Martensite Austenite islands, less than 8% of such Martensite A islands having a size above 0.5 μm , - at most 1 % of fresh martensite - at most 50% of tempered martensite and - recovered martensite containing precipitates of at least one element chosen among niobium, titanium and vanadium. it also deals with a manufacturing method thereof.

21: 2020/02384. 22: 04/05/2020. 43: 2021/07/02
51: C08K; C09D; C21D; C22C

71: ARCELORMITTAL

72: Carlos LALIENA IRANZO, Marcos PÉREZ RODRÍGUEZ

33: IB 31: PCT/IB2017/058105 32: 2017-12-19

54: A COATED STEEL SUBSTRATE

00: -

The present invention relates to a coated steel substrate comprising a coating comprising nanographite having a lateral size between 1 and 60 μm and a binder, wherein the steel substrate has the following compositions in weight percent: 0.31 = C = 1.2%, 0.1 = Si = 1.7%, 0.7 = Mn = 3.0%, P = 0.01 %, S = 0.1 %, Cr < 0.5%, Ni < 0.5%, Mo < 0.1 %, and on a purely optional basis, one or more elements such as Nb = 0.05 %, B = 0.003%, Ti = 0.06%, Cu = 0.1 %, Co = 0.1 %, N = 0.01 %, V = 0.05%, the remainder of the composition being made of iron and inevitable impurities resulting from the elaboration; and a method for the manufacture of the coated steel substrate.

21: 2020/02387. 22: 04/05/2020. 43: 2021/07/02
51: C21D; C22C

71: ARCELORMITTAL

72: Kangying ZHU, Astrid PERLADE, Coralie JUNG, Frédéric KEGEL

54: COLD ROLLED AND ANNEALED STEEL SHEET AND METHOD OF MANUFACTURING THE SAME

00: -

The invention deals with a cold-rolled and heat-treated steel sheet, made of a steel having a composition comprising, by weight percent: C : 0.03 - 0.25 % Mn : 3.5 - 8 % Si : 0.1 - 2.0 % Al : 0.03 - 2.0 % Ti < 0.080 % Nb = 0.080 % V < 0.2 % V + Ti + Nb > 0.01% S < 0.010 % P < 0.020 % N < 0.008 % and comprising optionally one or more of the following

elements, in weight percentage: Mo : 0.1 - 0.5 % Cr : 0.01 - 1 % B : 0.0005 - 0.004 % the remainder of the composition being iron and unavoidable impurities resulting from the smelting, said cold-rolled steel sheet having a microstructure consisting of, in surface fraction: - between 10% and 30% of retained austenite, said retained austenite being present as films having an aspect ratio of at least 3 and as Martensite Austenite islands, less than 8% of such Martensite Austenite islands having a size above 0.5 μm , - at most 10% of fresh martensite and -

recovered martensite containing precipitates of at least one element chosen among niobium, titanium and vanadium. It also deals with a manufacturing method thereof.

21: 2020/02389. 22: 04/05/2020. 43: 2021/07/02
51: C08K; C09D; C21D; C22C

71: ARCELORMITTAL

72: Carlos LALIENA IRANZO, Marcos PÉREZ RODRÍGUEZ

33: IB 31: PCT/IB2017/058106 32: 2017-12-19

54: A COATED STEEL SUBSTRATE

00: -

The present invention relates to a coated steel substrate comprising a coating comprising nanographite having a lateral size between 1 and 60 μm and a binder including sodium silicate or a binder including aluminum sulfate and an additive being alumina, wherein the steel substrate has the following compositions in weight percent: 0.31 = C = 1.2%, 0.1 = Si = 1.7%, 0.15 = Mn = 3.0%, P = 0.01 %, S = 0.1 %, Cr = 1.0%, Ni = 1.0%, Mo = 0.1 %, and on a purely optional basis, one or more elements such as Nb = 0.05 %, B = 0.003%, Ti = 0.06%, Cu = 0.1 %, Co = 0.1 %, N = 0.01 %, V = 0.05%, the remainder of the composition being made of iron and inevitable impurities resulting from the elaboration and a method for the manufacture of the coated steel substrate.

21: 2020/02403. 22: 04/05/2020. 43: 2021/07/02
51: B23Q; B24B; B24D

71: RUD. STARCKE GMBH & CO. KG

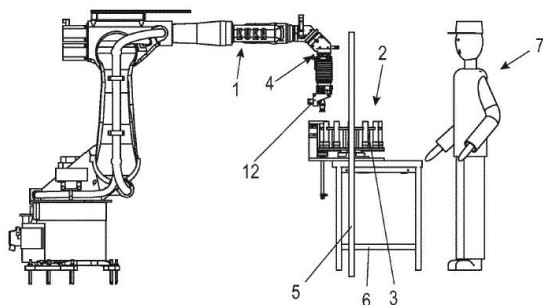
72: Werner UNNERSTALL, Christian WALL, Dr. Christian BURSTEIN, Stephan KAMPMEYER

33: DE 31: 10 2017 130 805.9 32: 2017-12-20

54: DEVICE FOR EXCHANGING A POLISHING DISC

00: -

The invention relates to a device for exchanging a polishing disc (8) which, during operation, is coated with a polishing agent, said disc being made in particular from a foam material, foam rubber, felt or lambskin and being fastened by means of connection means to a support plate (4) of a polishing tool held on a robot (1), said device being formed by an exchanging device (2) having at least one dispenser (3, 31) in which a stack of polishing discs (8) is arranged, wherein the dispenser (3, 31) has a discharge opening, the clear width of which is smaller than the assigned dimension of the polishing disc (8) and larger than the assigned dimension of the support plate (4), and wherein an axially movable sliding device (9) on which the stack rests is provided on the side facing away from the discharge opening.



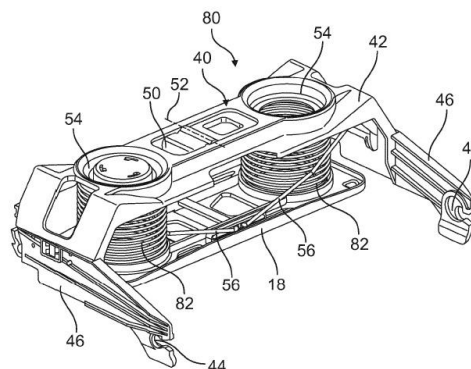
21: 2020/02405. 22: 04/05/2020. 43: 2021/07/02
51: A61M; A62B; B63C
71: DRÄGER SAFETY AG & CO. KGAA
72: Christian WILHELM, Matthias DÜPJAN, Sören KIRMSE

33: DE 31: 10 2017 011 581.8 32: 2017-12-14
54: SPRING LINK FOR A SPRING LINK BREATHING BAG PLATE SYSTEM OF A CLOSED-CIRCUIT BREATHING APPARATUS, SPRING LINK BREATHING BAG PLATE SYSTEM AND CLOSED-CIRCUIT BREATHING APPARATUS

00: -

The present invention relates to a spring link (40) for a spring link breathing bag plate system (80) of a closed-circuit breathing apparatus (100), having a spring link carrier (42) for arrangement of at least one spring element (82) of a spring link breathing bag plate system (80) and having at least one fastening element (44) for holding the spring link (40)

on the closed-circuit breathing apparatus (100), wherein the at least one fastening element (44) is a rotating element and/or sliding element for moving the spring link carrier (42) in a rotational or sliding manner on and relative to the closed-circuit breathing apparatus (100). The invention also relates to a spring link breathing bag plate system (80) for a closed-circuit breathing apparatus (100) and to a closedcircuit breathing apparatus (100).



21: 2020/02478. 22: 06/05/2020. 43: 2021/07/02
51: C21D; C22C
71: ARCELORMITTAL
72: Patrick BARGES, Ian Alberto ZUAZO RODRIGUEZ
33: IB 31: PCT/IB2017/058120 32: 2017-12-19
54: COLD ROLLED AND HEAT TREATED STEEL SHEET, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS

00: -

The invention deals a cold rolled and heat treated steel sheet having a composition comprising the following elements, expressed in % by weight: 0.1 % # carbon # 0.6 % 4 % # manganese # 20 % 5 % # aluminum # 15 % 0 # silicon # 2 % aluminium + silicon + nickel # 6.5% and can possibly contain one or more of the following optional elements: 0.01% # niobium # 0.3%, 0.01% # titanium # 0.2% 0.01% # vanadium # 0.6% 0.01% # copper # 2.0% 0.01% # nickel # 2.0% cerium # 0.1% boron # 0.01% magnesium # 0.05% zirconium # 0.05% molybdenum # 2.0% tantalum # 2.0% tungsten # 2.0% the remainder being composed of iron and unavoidable impurities caused by elaboration, wherein the microstructure of said steel sheet comprises in area fraction, 10 to 50 % of austenite, said austenite phase optionally including

intragranular kappa carbides, the reminder being regular ferrite and ordered ferrite of D03 structure (Fe,Mn,X)3Al, optionally including up to 2% of intragranular kappa carbides (Fe,Mn)3AlC_x said steel sheet presenting a ultimate tensile strength higher than or equal to 900 MPa. It also deals with a manufacturing method and with use of such grade for making vehicle parts.

21: 2020/02523. 22: 07/05/2020. 43: 2021/07/01

51: G06F; G06T; G10L; H04N

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

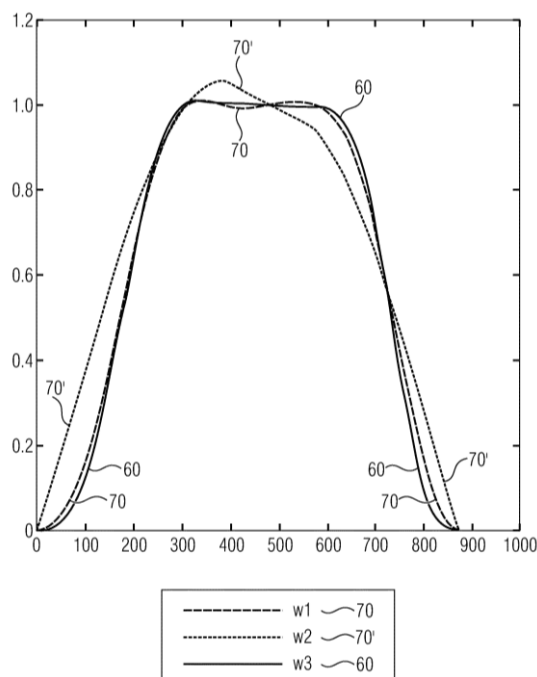
72: SCHNELL, Markus, LUTZKY, Manfred, TSCHEKALINSKI, Alexander, GEIGER, Ralf

33: EP 31: 17201086.0 32: 2017-11-10

54: ANALYSIS/SYNTHESIS WINDOWING FUNCTION FOR MODULATED LAPPED TRANSFORMATION

00: -

There are provided methods and apparatus for performing modified cosine transformation (MDCT) with an analysis/synthesis windowing function, using an analysis windowing function (40, 50, 60, 70, 240) having a meandering portion (44, 64, 244) which passes a linear function (40', 240') in correspondence of at least four points (#1, #2, #3, #4).



21: 2020/02524. 22: 07/05/2020. 43: 2021/07/01

51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: RAVELLI, Emmanuel, TOMASEK, Adrian, LUTZKY, Manfred, BENNDORF, Conrad

33: EP 31: 17201099.3 32: 2017-11-10

54: ENCODING AND DECODING AUDIO SIGNALS

00: -

There are provided methods and apparatus and non-transitory memory units for encoding/decoding audio signal information. The encoder side may determine if a signal frame is useful for long term post filtering (LTPF) and/or packet lost concealment (PLC) and may encode information in accordance to the results of the determination. The decoder side may apply the LTPF and/or PLC in accordance to the information obtained from the encoder.

21: 2020/02529. 22: 07/05/2020. 43: 2021/07/02

51: A61K; C12N; A61P

71: MEDIZINISCHE HOCHSCHULE HANNOVER

72: Thomas THUM, Sandor BATKAI, ARIANA FOINQUINOS

33: US 31: 62/599,050 32: 2017-12-15

33: EP 31: 17207738.0 32: 2017-12-15

54: IMPROVED COMPOUND FOR TREATMENT OF HEART FAILURE

00: -

The present invention refers to an oligonucleotide which is an effective inhibitor of microRNA miR-132 and its use in medicine, particularly in the prevention or treatment of cardiac and/or fibrotic disorders.

21: 2020/02569. 22: 08/05/2020. 43: 2021/07/01

51: G10L; H03H; H04N

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: MARKOVIC, Goran, RAVELLI, Emmanuel, DIETZ, Martin, GRILL, Bernhard

33: EP 31: 17201105.8 32: 2017-11-10

54: SIGNAL FILTERING

00: -

There are discussed methods and systems for filtering an information input signal (11, 11a, x), divided into different update intervals, according to parameters varying with the update intervals, to obtain a filtered output signal (y, 15). A system (10) may comprise: - a first filter unit (12) to filter a first filter input signal (11, x) at least at an initial subinterval (T_i) in a current update interval (T) to obtain a first filter output signal (y' , 13), according to parameters associated to the preceding update interval, the first filter unit (12) being configured to change the parameters along at least the initial subinterval (T_i) from a higher-filtering status to a lower-filtering status; and - a second filter unit (14) to filter a second filter input signal (13), at the initial interval (T_i), according to parameters associated to the current update interval (T) to obtain a second filter output signal (15), the second filter unit (14) being configured to change the parameters along at least the initial subinterval (T_i) from a lower-filtering status to a higher-filtering status. The first filter input signal (11) is based on the information input signal (x), the first filter output signal (13) is an intermediate signal (y'), the second filter input signal is based on the intermediate signal (y'), and the filtered output signal (y) is based on the second filter output signal (15).

21: 2020/02570. 22: 08/05/2020. 43: 2021/07/16

51: C12Q

71: SAFEGUARD BIOSYSTEMS HOLDINGS LTD.

72: Nicolaas SMIT, Sonja BEDNAR, Holger KLAPPROTH, Kevin BOYNTON

33: US 31: 15/820,475 32: 2017-11-22

54: ASYMMETRIC PCR METHODS

00: -

The disclosure provides an asymmetric PCR amplification method for preparation of single-stranded product and primers and kits useful therefor.

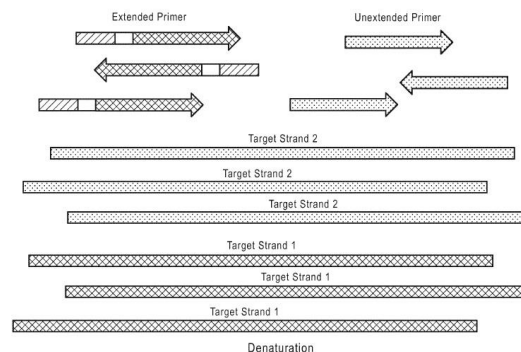


FIG. 3

21: 2020/02621. 22: 11/05/2020. 43: 2021/07/02

51: C12G; C12H

71: DDS PATENTE + LIZENZEN AG

72: Dolf STOCKHAUSEN

33: EP 31: 17201433.4 32: 2017-11-13

54: METHOD FOR THE TREATMENT OF WOOD PARTICLES FOR THE PRODUCTION OF ALCOHOLIC BEVERAGES AND THEIR USE AND AN APPARATUS FOR THEIR USE

00: -

There is provided a method for the treatment of wood particles for use in the production of alcoholic beverages, comprising the steps of: (a) washing the wood particles with water under agitation at a temperature of at least 60°C; wherein the wood particles may optionally already be toasted; (b) removing the water from the wood particles; (c) thermally drying the wood particles; (d) toasting the wood particles to obtain wood particles according to the invention; (e) optionally, incubating the wood particles according to the invention with an aroma-bearing liquid, the subsequent removal of any overlying aroma-bearing liquid, and, optionally, the subsequent drying the wood particles according to the invention to obtain aromatised wood particles according to the invention.

21: 2020/02718. 22: 13/05/2020. 43: 2021/06/22
51: A01G

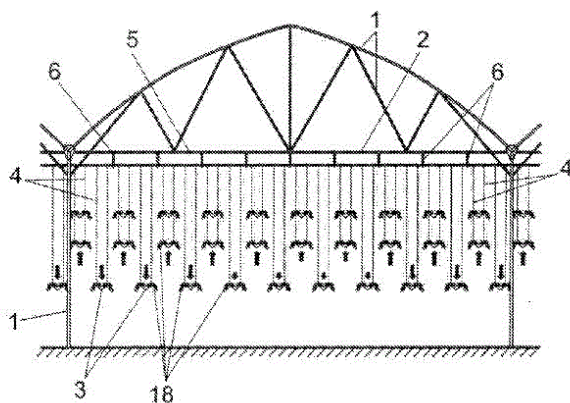
71: NEW GROWING SYSTEMS, S.L.

72: BELMONTE MULA, Manuela

54: INSTALLATION FOR A HANGING CULTIVATION SYSTEM

00: -

The present invention relates to an installation having a plurality of conduits (3) hung by means of pairs of steel cables (4) connected to rotary shafts (5) such that the rotation of same causes some conduits (3) to ascend and others to descend, allowing same to be situated at different heights. The rotary shafts (5) from which the cables (4) of the conduits (3) hang are actuated by means of reducers (14) actuated by means of a chain-and-sprocket drive that is actuated by a main shaft (16) connected to a motor reducer (17).



21: 2020/02725. 22: 13/05/2020. 43: 2021/07/02
51: A61K; C07H; A61P

71: AOP ORPHAN IP AG

72: Josef SPREITZ, Wolfgang STROHMAIER

33: EP 31: 17207329.8 32: 2017-12-14

54: GLYCOSIDIC DERIVATIVES OF TREPROSTINIL

00: -

The present invention relates to the field of pharmaceutical products, specifically the glycosidic derivatives of treprostinil. The glycosidic treprostinil derivatives can be used to treat any conditions responsive to treatment with treprostinil, including pulmonary hypertension, such as pulmonary arterial hypertension.

21: 2020/02806. 22: 2020/05/15. 43: 2021/05/27
51: F21V; G05B

71: ROBERTS, Francois Jacobus

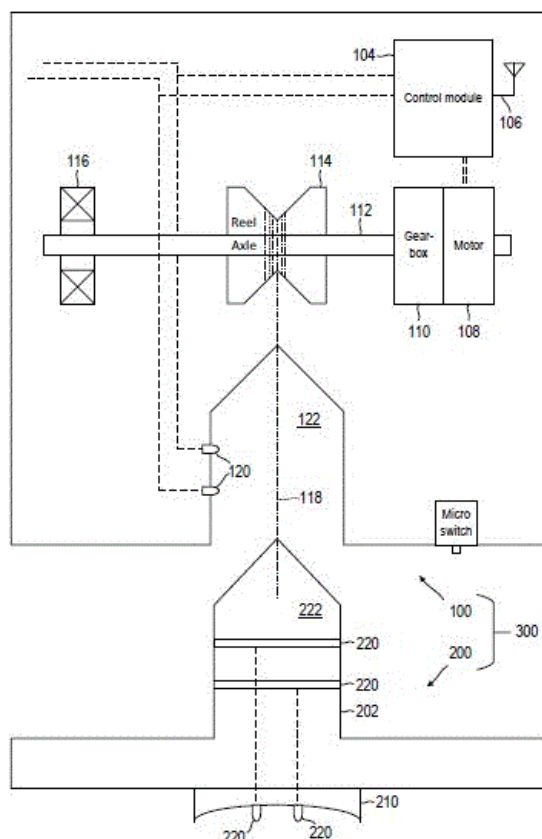
72: ROBERTS, Francois Jacobus, VAN VREDEN, Melchizedek Byron Malcolm, VAN VREDEN, Gary Malcolm

33: ZA 31: 2019/01955 32: 2019-03-29

54: AN APPARATUS FOR RAISING OR LOWERING AN ELECTRICAL DEVICE FIXTURE

00: -

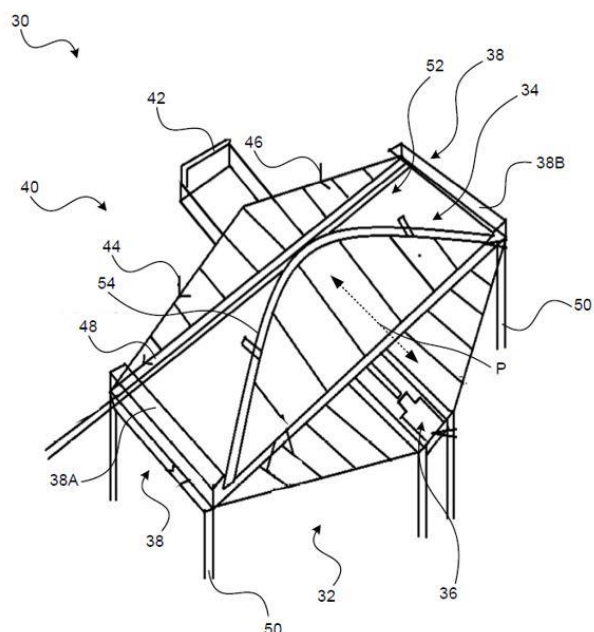
An apparatus for raising or lowering an electrical device fixture includes a base unit and a displaceable unit. The base unit has a drive mechanism to drive a reel, a cord to be wound around or unwound from the reel, a control module to control the drive mechanism, a wireless receiver to receive a control signal, and a first set of electrical contacts connected to a power supply. The displaceable unit includes the electrical device fixture and a second set of electrical contacts complementary to the first set of electrical contacts. The displaceable unit is connected to an end of the cord, such that winding or unwinding of the cord causes raising or lowering of the displaceable unit, between a home position and a displaced position. The wireless receiver receives a quantitative indication of displacement and the control module controls the drive mechanism in accordance with the quantitative indication.



21: 2020/02813. 22: 2020/05/15. 43: 2021/05/27
 51: B21D; E04B
 71: RH HOMES (PTY) LTD
 72: ROUX, Albertus Jacobus Johannes
 33: ZA 31: 2018/07607 32: 2019-02-15
54: BENDING APPARATUS FOR A RIB MEMBER
 00: -

A bending apparatus is disclosed. The apparatus includes a frame, a bending die, ram means, a guiding arrangement and a stopping arrangement. The frame defines a platform for receiving a blank. The bending die has a curved bending surface configured to engage with the blank. The ram means is connected to the bending die and can advance and retract the bending die along a predefined path. The guiding arrangement guides the bending die along the path. The stopping arrangement is located such that the blank is receivable between the stopping arrangement and the bending die. The stopping arrangement is configured to cooperate with the bending die in deforming the blank when the bending die is advanced along the path. The shape of the blank is changed to that of a rib member conforming to the

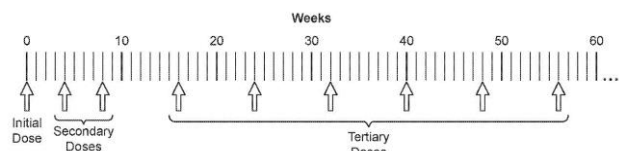
contours of the bending surface and for use in a roof structure of a building.



21: 2020/02821. 22: 15/05/2020. 43: 2021/05/27
 51: A61K; A61P
 71: REGENERON PHARMACEUTICALS, INC.
 72: VITTI, Robert, L., BERLINER, Alyson J, CHU, Karen

33: US 31: 62/593,033 32: 2017-11-30
 33: US 31: 62/644,425 32: 2018-03-17
 33: US 31: 62/748,782 32: 2018-10-22
54: USE OF A VEGF ANTAGONIST TO TREAT
ANGIOGENIC EYE DISORDERS
 00: -

The present invention provides methods for treating or preventing diabetic retinopathy, e.g., nonproliferative diabetic retinopathy, by sequentially administering multiple doses of a VEGF antagonist to a patient. The methods of the present invention include the administration of a 2mg aflibercept by intravitreal injection q8 weeks after three or five initial monthly doses (2q8) or 2 mg q16 weeks after three initial monthly doses and one 8-week interval (2q16). Moreover, the present invention provides methods for reversing or halting the progression NPDR to PDR (e.g., such that the DRSS is reduced by 2 or 3 levels) or preventing the occurrence or reoccurrence of a vision threatening complication by administering aflibercept according to the dosing regimens set forth herein.



21: 2020/02823. 22: 15/05/2020. 43: 2021/07/01

51: A23B; A23L

71: XEDA INTERNATIONAL S.A.

72: SARDO, Alberto

33: FR 31: 17 60756 32: 2017-11-15

54: METHOD AND ASSEMBLY FOR TREATING THE ATMOSPHERE IN A SPACE USED TO STORE VEGETABLE PRODUCTS AT HIGH RELATIVE HUMIDITY

00: -

The method for treating the atmosphere of a storage (3) of plant products (5) leads to relative humidity levels greater than 99%, wherein the process comprises at least one step of contacting the atmosphere with a flow of liquid by circulation in a packing.

21: 2020/02918. 22: 19/05/2020. 43: 2021/06/23

51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

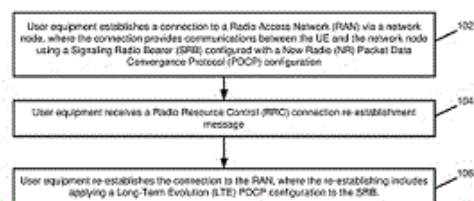
72: TEYEB, OUMER, MILDH, GUNNAR

33: US 31: 62/586,348 32: 2017-11-15

54: HANDLING OF PDCP DURING CONNECTION RE-ESTABLISHMENT

00: -

Systems, methods and apparatus are disclosed for user equipment and/or network nodes. An example method performed by a user equipment (210) includes establishing (102) a connection to a Radio Access Network (206) via a network node (260). The connection provides communications between the UE and the network node using a Signaling Radio Bearer configured with a New Radio (NR) Packet Data Convergence Protocol configuration. The user equipment receives (104) a Radio Resource Control connection re-establishment message and re-establishes (106) the connection to the RAN. The re-establishing includes applying a Long-Term Evolution PDCP configuration to the SRB.



21: 2020/03003. 22: 21/05/2020. 43: 2021/07/01

51: B65D

71: STARLINGER & CO GESELLSCHAFT M.B.H.

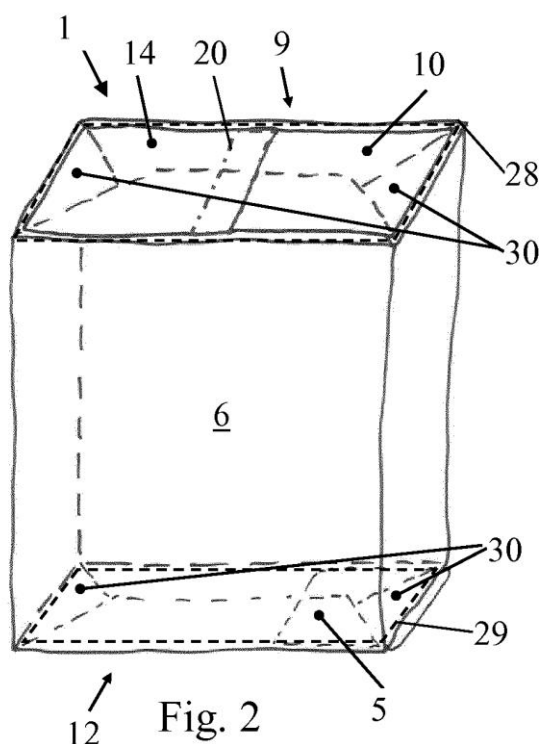
72: FÜRST, Herbert

33: EP 31: 17207216.7 32: 2017-12-14

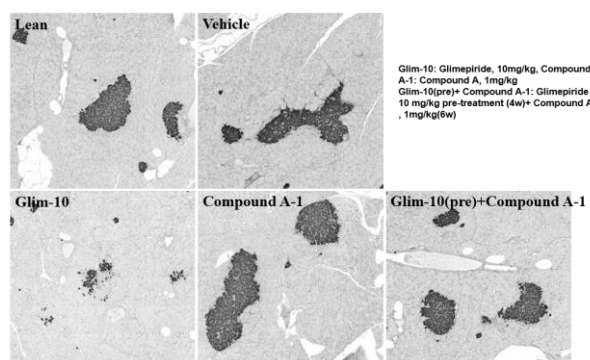
54: BAG FOR LOOSE MATERIAL

00: -

A bag (1; 22) for loose material (19), wherein the bag (1; 22) is formed from a tubular material (6), which tubular material (6) is a tubular planar assembly or a flat material connected to form a tube, and has a first and a second open end (2, 3). Sections (24) of the tubular material (6) of one of the ends (2, 3) are shaped by folding to form a bag bottom (9, 12). The bag bottom (9, 12) exhibits a first cover sheet (10) and a second cover sheet (14, 14a, 14b). The first cover sheet (10) is connected to the bag bottom (9) and extends in a first region (11) of the bag bottom (9). The second cover sheet (14, 14a, 14b) is connected to the bag bottom (9) and extends in a second region (15) of the bag bottom (9). Via the cover sheets (10, 14, 14a, 14b), the folded sections (24) of the tubular material (6) are held together in such a way that the bag bottom (9) is sealed.



Therefore, according to the present invention, the 3-(4-(benzyloxy)phenyl)hex-4-inoic acid derivative exhibits an excellent pancreatic beta cell protection effect, when administered as a primary selective agent for diabetes and also when administered to a patient having pancreatic beta cells damaged by the use of other drugs, which are primary selection agents for diabetes and cause a secondary failure; and restores the insulin secretory function of pancreatic beta cells, thereby being useful for treating type II diabetes in a patient of which the blood glucose is not regulated in a normal manner by using an agent for promoting insulin secretion.



21: 2020/03028. 22: 22/05/2020. 43: 2021/07/01
51: A61K; C07D; A61P
71: HYUNDAI PHARM CO., LTD.
72: KIM, Dae Hoon, KIM, Chun Hwa, LEE, Sun Hee,
YANG, Goeun, KANG, Seung Jun, CHOI, Hyo Sun
33: US 31: 62/593,350 32: 2017-12-01

54: NOVEL USE OF 3-(4-(BENZYLOXY)PHENYL)HEX-4-INOIC ACID DERIVATIVE

00: -

The present invention provides a use of a 3-(4-(benzyloxy)phenyl)hex-4-inoic acid derivative for protecting pancreatic beta cells. The 3-(4-(benzyloxy)phenyl)hex-4-inoic acid derivative according to the present invention resolves a side effect in which conventionally developed agents for treating diabetes induce apoptosis of pancreatic beta cells through excitotoxic reactions, thereby causing a secondary failure in which an insulin secretory function is not controlled. The 3-(4-(benzyloxy)phenyl)hex-4-inoic acid derivative according to the present invention promotes insulin secretion only when glucose concentration is increased, thereby protecting the pancreatic beta cells from apoptosis and restoring the insulin secretory function of the pancreatic beta cells.

21: 2020/03072. 22: 25/05/2020. 43: 2021/07/02
51: C23C

71: ARCELORMITTAL

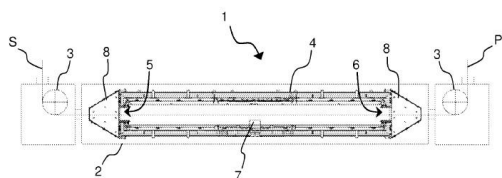
72: Eric SILBERBERG, Bruno SCHMITZ, Sergio PACE, Rémy BONNEMANN, Didier MARNEFFE
33: IB 31: PCT/IB2017/057943 32: 2017-12-14

54: VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE

00: -

The invention relates to a vacuum deposition facility for continuously depositing, on a running substrate, coatings formed from metal or metal alloy, the facility comprising a vacuum chamber and a means for running the substrate through the vacuum chamber along a given path, wherein the vacuum chamber further comprises: - a central casing comprising a substrate entry and a substrate exit located on two opposite sides of the central casing and a vapor jet coater, the inner walls of the central casing being suited to be heated at a temperature above the condensation temperature of the metal or metal alloy vapors, - a vapor trap in the form of an external casing located at the substrate exit of the central casing, the inner walls of the vapor trap being suited to be maintained at a temperature below the

condensation temperature of the metal or metal alloy vapors.



21: 2020/03073. 22: 25/05/2020. 43: 2021/07/02
51: C23C

71: ARCELORMITTAL

72: Eric SILBERBERG, Bruno SCHMITZ, Sergio PACE, Rémy BONNEMANN, Didier MARNEFFE
33: IB 31: PCT/IB2017/057946 32: 2017-12-14

54: VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE

00: -

The invention relates to a vacuum deposition facility for continuously depositing, on a running substrate, coatings formed from metal or metal alloy, and comprising: - a central casing comprising a vapor jet coater, the inner walls of the central casing being suited to be heated at a temperature above the condensation temperature of the metal or metal alloy vapors, - a vapor trap located at the substrate exit of the central casing, the inner walls of the vapor trap being suited to be maintained at a temperature below the condensation temperature of the metal or metal alloy vapors, the passage linking the central casing to the vapor trap comprising at least one thermal connector extending at least from the inner walls of the central casing to the inner walls of the vapor trap.

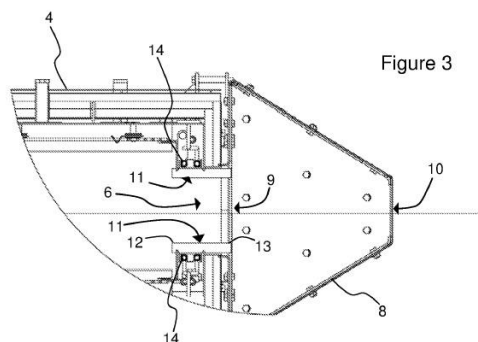


Figure 3

21: 2020/03219. 22: 29/05/2020. 43: 2021/07/02
51: A42B; A42C

71: ANTUNES, Nuno

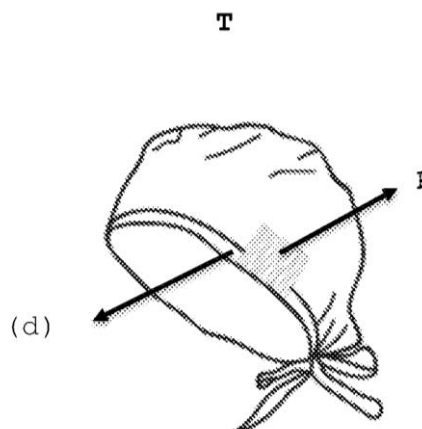
72: ANTUNES, Nuno

33: PT 31: 110475 32: 2017-12-28

54: SURGICAL CAP WITH POCKET

00: -

The present invention relates to a textile article (T) developed to be worn on the head by health care providers. The article is made of conventional textile materials but has specific properties for use in a hospital setting, having an outer layer composed of a semipermeable component, an inner layer composed of a breathable and antimicrobial component, and preferably an intermediate layer with an antimicrobial barrier function. Also, the presence of a pocket (P) simultaneously allows the user to store safely and temporarily small personal belongings.



21: 2020/03221. 22: 29/05/2020. 43: 2021/07/01
51: B67D; F04B; F04D

71: MACNAUGHT PTY LIMITED

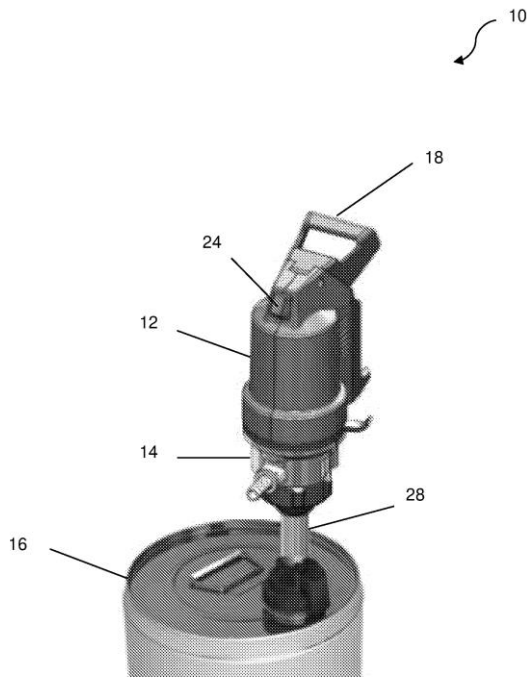
72: MULYADI, Welly, UCCELLANI, Marco, SZCZUROWSKI, Pawel, JOSEPHSON, Greg
33: AU 31: 2017904870 32: 2017-12-04

54: DRUM MOUNTED, ON-DEMAND FLUID TRANSFER PUMP

00: -

An on-demand fluid transfer pump, comprising: a power head removably connectable on top of a stem that is removably connectable to a fluid supply; wherein the power head comprises an electric pump and a flow control unit configured to automatically switch the electric pump on and off; wherein the flow control unit comprises a magnetic sensor; and wherein the stem comprises: a suction tube, a fluid chamber, a plunger chamber, and a magnetic plunger reciprocable within the plunger chamber in

response to pressure changes in the fluid chamber, wherein the magnetic plunger is biased to deactivate the magnetic sensor to switch on the electric pump to pressurise the fluid supply for delivery to the fluid dispenser; and wherein the magnetic plunger is pushed when pressure in the fluid chamber rises to thereby actuate the magnetic sensor to switch off the electric pump.



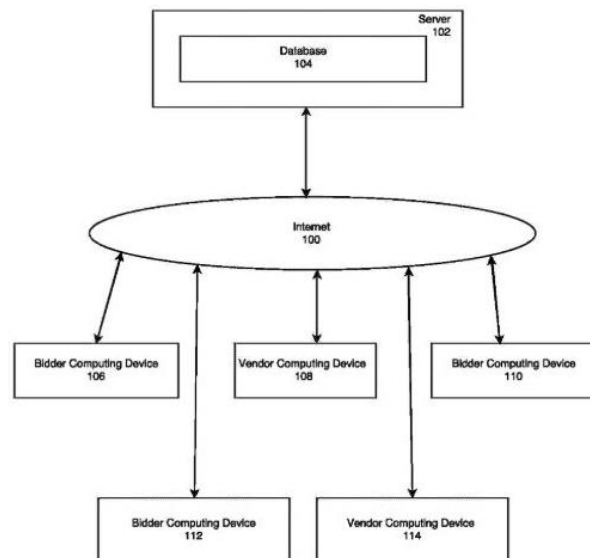
21: 2020/03227. 22: 05/05/2020. 43: 2021/07/29
51: G06Q
71: WANG, Kevin, Sunline
72: WANG, Kevin, Sunline
33: US 31: PCT/US2017/053772 32: 2017-09-27
33: US 31: 15/717,594 32: 2017-09-27
33: US 31: 62/584,061 32: 2017-11-09
33: US 31: 62/623,945 32: 2018-01-30

54: METHOD AND SYSTEM FOR ONLINE AUCTIONS

00: -

Disclosed is system and method for sealed bid online auctions according to a set of predetermined rules. The system designates a winning bid rank for the winning bid and a designated bid rank for a designated bid relative to the winning bid. A fee may be associated with a bid, and may be allocated to one or more auction participants or one or more non-auction participants. A payment amount associated

with the amount of the winning bid is calculated in accordance with one or more sets of predetermined rules. Calculation of the payment amount may be based on at least one of the fee or an adjustment based the amount of the winning bid and the amount of the designated bid. The fee may be paid by one or more auction or non-auction participants.



21: 2020/03308. 22: 2020/06/03. 43: 2021/06/23
51: F03D

71: OCEANERGY AG

72: REINERS, Wolfram, Johannes, Bernd

33: GB 31: 1907883.1 32: 2019-06-03

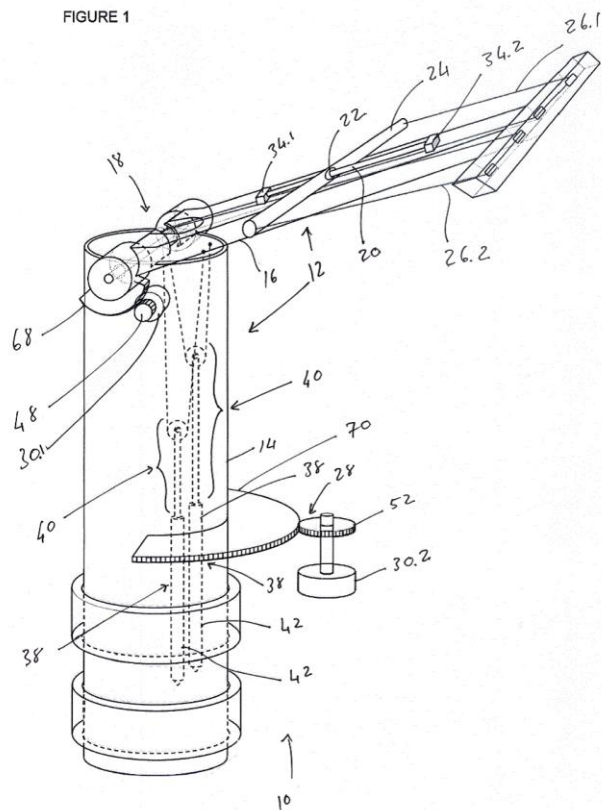
54: CONTROL DEVICE FOR CONTROLLING A KITE STEERING ARRANGEMENT

00: -

A control device for controlling a kite steering arrangement which includes base, a control bar support extending downward the base, a control bar pivot point mounted displaceably about the control bar support for pivotally supporting a control bar, when in use, a pair of interconnecting members extending inbetween opposing end regions of the control bar and the base upper the control bar support, wherein the length aspect of the interconnecting members is adjusted by pivoting the control bar about the control bar pivot point and/or by displacement of the control bar pivot point relative the control bar support, a tensioning mechanism for tensioning the interconnecting members so as to exert a pulling force on the control bar, a base pivot

point for allowing pivoting of the base about a horizontal axis thereof, a base rotator for allowing rotation of the base about a vertical axis thereof, a manipulator for manipulating the base pivot point and base rotator for aligning the control device with the positional orientation of the kite, and / or kite connecting lines, when in use, and, a communicator, for when in use, communicating adjustment of the interconnecting members to the kite steering arrangement for adjusting the kite connecting lines and / or actuators at the kite accordingly.

FIGURE 1



21: 2020/03310. 22: 03/06/2020. 43: 2021/06/09
51: C07D; A61K; A61P
71: MITOBRIDGE, INC.
72: TAKAHASHI, TAISUKE, KLUGE, ARTHUR, LAGU, BHARAT, JI, NAN
33: US 31: 62/440,581 32: 2016-12-30
54: POLY-ADP RIBOSE POLYMERASE (PARP) INHIBITORS

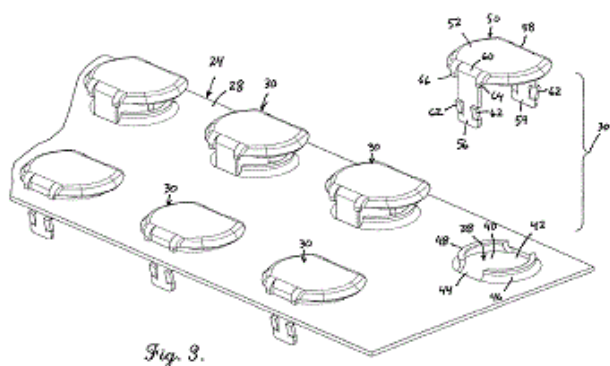
00: -
The present invention is related to the compound 6-[(3S)-4-[3-(6-fluoro-4-oxo-3H-quinazolin-2-yl)propanoyl]-3-methylpiperazin-1-yl]pyridine-3-

carbonitrile or a pharmaceutically acceptable salt thereof, and a pharmaceutical composition comprising the compound.

21: 2020/03321. 22: 03/06/2020. 43: 2021/06/08
51: B01D; B01F
71: KOCH-GLITSCH, LP
72: NIEUWOUDT, IZAK, GRIESEL, CHARLES
33: US 31: 62/610,815 32: 2017-12-27
54: CONTACT TRAY FOR A MASS TRANSFER COLUMN

00: -

A contact tray for use in a mass transfer column and having a tray deck for receiving a liquid stream and a plurality of valves distributed across the tray deck through which vapor ascends for interacting with the liquid stream. Each valve has an opening in the tray deck in the form of a central segment and extensions that extend outwardly from opposite ends of the central segment. The valves each include a valve body with a valve cover positioned in covering relationship above and extending outwardly beyond the opening and legs that are attached to the valve cover at recesses located at opposite ends of the valve cover.

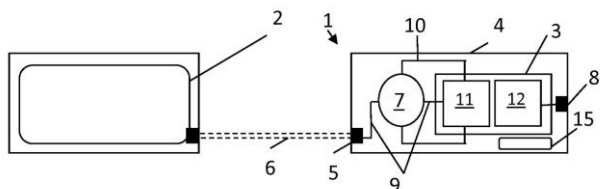


21: 2020/03357. 22: 04/06/2020. 43: 2021/06/22
51: B63J; F01K; F17C
71: 247 ENERGY BVBA
72: HIMSCHOOT, Peter, TROCH, James, AERTS, Karl, AHRENS, Kurt
33: BE 31: 2017/0157 32: 2017-11-10
54: COMPACT POWER PLANT

00: -

The invention relates to a power plant (1) for energy production from a liquid gas product stored in a cryogenic storage tank (2). The plant comprises a container housing (4) and an inlet (5) to receive the

gas product from the tank via a line. An evaporation unit (7) converts the liquid gas product to a gaseous phase. The plant comprises an aggregate (3) for the combustion of the gaseous phase to provide an electrical current to an external consumer. A circuit (9) brings the liquid and/or gaseous phase to the motor via the evaporation unit. A regulating unit regulates the pressure and/or temperature in the circuit using at least one valve, such that the pressure of the gaseous phase provided to the motor is regulated in a range and the temperature is at least 5° C. The liquid gas product, forced into the evaporation unit by an overpressure in the tank, is supplied to the motor in the gaseous phase by passive liquid and gas transport. A cooling circuit (10) transfers heat from the motor to a heat exchanger in the evaporation unit (7).



21: 2020/03366. 22: 2020/06/05. 43: 2021/06/29
51: C02F; G06K

71: CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES, JIANGSU LANCHUANG INTELLIGENT TECHNOLOGY CO., LTD.

72: WEI ZHANG, LU BAI, LIWEI DONG, CHUNLIAN XU, CHI XU, HONGJUAN HUANG

54: METHOD AND TAIL-END DISCHARGE MONITORING SENSOR FOR VERIFYING AND JUDGING SEWAGE TREATMENT PROCESS

00: -

The present invention discloses a method and a tail-end discharge monitoring sensor for verifying and judging a sewage treatment process.

Multidimensional algorithms are combined with data to collect key data of a treatment process of sewage discharging enterprises; and meanwhile, tail-end discharge monitoring data of the sewage discharging enterprise are collected; and some parameters of the process can be finely adjusted without exceeding local discharge standards through simulation modeling of the treatment process to improve treatment effect. The method and the tail-end discharge monitoring sensor provided by the present

invention is convenient for the enterprises to directly observe the relationship between discharge results and the treatment processes and provide data support for predicting the treatment effect, thereby reducing the burden on green production of the sewage discharging enterprises and protecting intelligent production of the enterprises.



21: 2020/03384. 22: 2020/06/05. 43: 2021/06/22
51: F03B

71: Politecnico di Torino, Massachusetts Institute of Technology, Wave for Energy S.r.l.

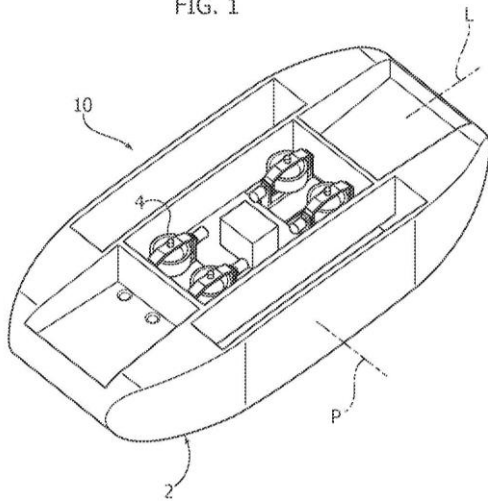
72: MATTIAZZO, Giuliana, VISSIO, Giacomo, PASSIONE, Biagio, SIRIGU, Sergej Antonello, POZZI, Nicola, BRACCO, Giovanni, BRIZZOLARA, Stefano, GULISANO, Andrea

54: SYSTEM FOR GENERATING ELECTRICAL ENERGY FROM THE WAVE MOTION OF THE SEA

00: -

Described herein is a system for generating electrical energy from the wave motion of the sea, which is provided with electrical-energy generating means for exploiting the wave motion of the sea in order to generate electrical energy. The system is characterized in that its floating body is provided with equipment designed to regulate the frequency of the resonance peak of the system.

FIG. 1



21: 2020/03400. 22: 2020/06/08. 43: 2021/07/29

51: B65D; E02D; E21F

71: STELLENBOSCH UNIVERSITY

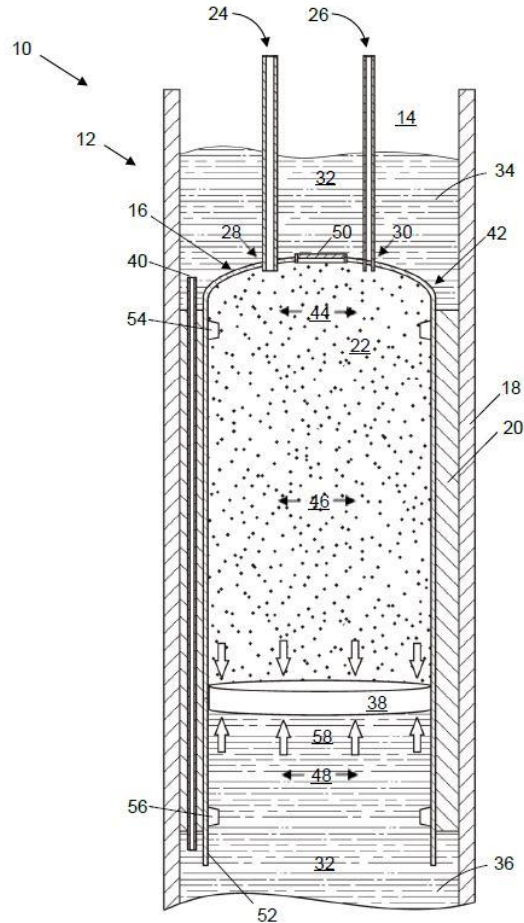
72: CLARK, Stephen Richard, VAN NIEKERK, Johannes Lodewikus

33: ZA 31: 2019/03690 32: 2019-06-10

54: BULK FLUID STORAGE FACILITY AND PROCESS

00: -

The invention provides a bulk fluid storage facility comprising an underground container formation defining a container cavity that is at least partially filled with a liquid; and at least one storage vessel defining an interior fluid storage space and at least one port for filling the storage space with a storage fluid, the vessel being held within the container formation and in fixed relationship to it. The storage facility is characterised in that the vessel is at least partially submerged in the liquid and configured to permit pressure of the liquid to be transferred to the interior fluid storage space. The container formation may comprise a mine shaft and the storage fluid may comprise natural gas. The storage vessel may be provided with force transfer means to permit the pressure of the liquid to be transferred to the interior fluid storage space. The force transfer means may comprise a float.



21: 2020/03422. 22: 08/06/2020. 43: 2021/07/02

51: E04G

71: WILHELM LAYHER VERWALTUNGS-GMBH

72: Wolf Christian BEHRBOHM

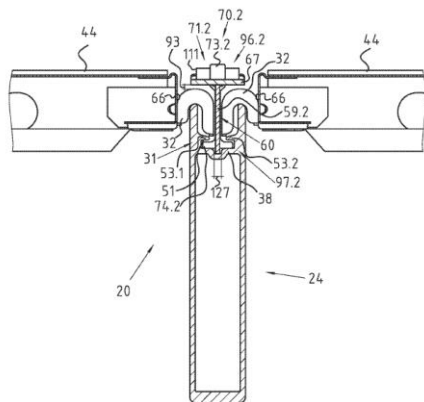
33: DE 31: 10 2018 103 897.6 32: 2018-02-21

54: SCAFFOLD HAVING AN ANTI-LIFT-OUT DEVICE AND METHOD FOR SECURING A SCAFFOLD PLATFORM AGAINST LIFTING OUT

00: -

The invention relates to a scaffold (20), comprising a U-profile beam (24), which has a U-profile (31) that is open outward. At least one scaffold platform (44) is releasably hooked in the U-profile (31) by means of mounting hooks (32). The U-profile beam (24) has a perpendicular wall (38) delimiting the U-profile (31) and has a guiding and fastening groove (51), which is delimited by groove reachbehind protrusions (53.1, 53.2) each extending inward. The groove reach-behind protrusions delimit a locking space, in which a locking element (74.2) that reaches behind the groove reachbehind protrusions (53.1, 53.2) can be releasably fastened in a locking position (97.2).

An anti-liftout and support element (67) is provided, which has an anti-lift-out element (67), which extends over the mounting hooks (32) and secures against lifting out from the U-profile (31), and a support element (59.2), which is fixedly connected to the anti-lift-out element. The support element (59.2) extends perpendicularly away from the anti-lift-out element (67) to a support element end, by means of which the support element is supported on the perpendicular wall (38) of the U-profile beam (24). The anti-lift-out element (67) has a through-opening, which is designed in such a way that the locking element (74.2) can be moved by means of the fastening element (73.2) in the direction of the fastening element longitudinal axis thereof and perpendicularly to the guiding and fastening groove (51) through the through-opening in the anti-lift-out element (67). The invention further relates to a method securing mounting hooks (32) of at least one scaffold platform (44) of a scaffold (20) against lifting out from a U-profile (31) of a U-profile beam (24) by means of an antilift-out device (70.2).



21: 2020/03423. 22: 08/06/2020. 43: 2021/07/02
51: E04G

71: WILHELM LAYHER VERWALTUNGS-GMBH

72: Wolf Christian BEHRBOHM

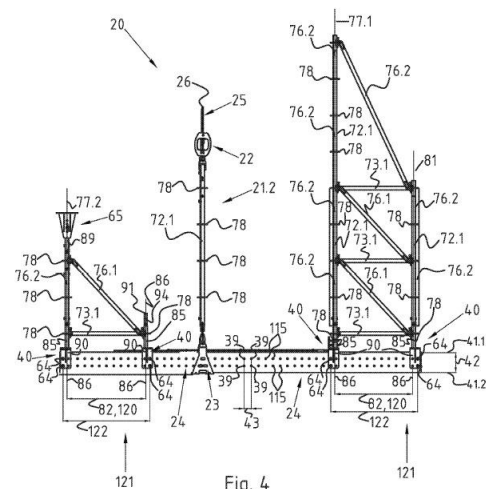
33: DE 31: 10 2018 103 898.4 32: 2018-02-21

54: POST CONNECTION ADAPTER

00: -

The invention relates to a post connection adapter (40) for detachably fastening a scaffolding post (72.1, 72.2) to a support (24). The post connection adapter (40) comprises a fastening body (90), which has a first fastening-body fastening means in a first fastening-body fastening position and a second fastening-body fastening means in a second

fastening-body fastening position and which can be detachably fastened to the support (24) selectively either by means of the first fastening-body fastening means or by means of the second fastening-body fastening means. The first fastening-body fastening position and the second fastening-body fastening position have a fastening position distance between each other of 72 mm. The post connection adapter (40) comprises a post connection body (85), which extends in the direction of the post connection body axis (86) thereof and which is fastened to the fastening body (90). An imaginary center plane containing an imaginary center point at the center between the first fastening-body fastening position and the second fastening-body fastening position is offset at a distance of 20 mm, in a direction perpendicular to the center plane and perpendicular to the post connection body axis (86), with respect to a post connection body axis plane, which extends parallel to the center plane and contains the post connection body axis. The invention further relates to a device (121) having two identical post connection adapters, which are detachably fastened to a support (24).



21: 2020/03441. 22: 09/06/2020. 43: 2021/07/01
51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR
FÖRDERUNG DER ANGEWANDTEN
FORSCHUNG E.V.

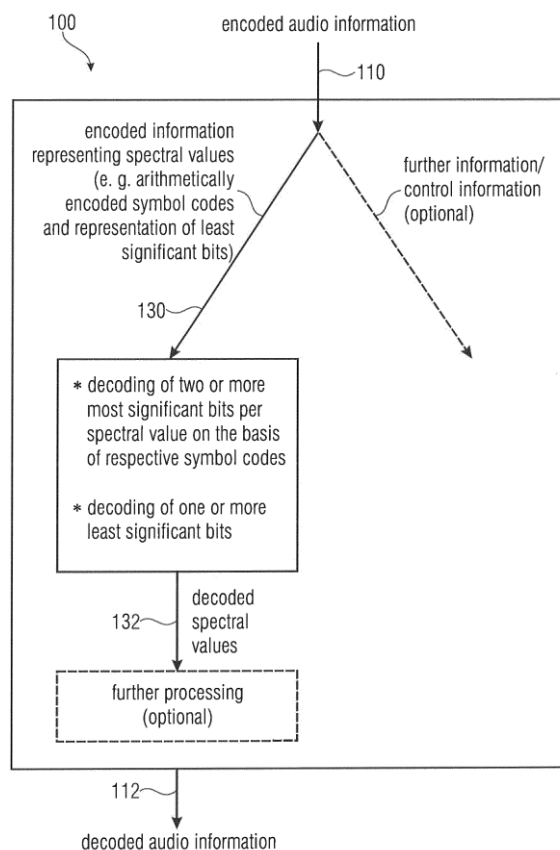
72: RAVELLI, Emmanuel, FUCHS, Guillaume,
SCHNELL, Markus, TOMASEK, Adrian,
GEYERSBERGER, Stefan

33: EP 31: PCT/EP2017/078959 32: 2017-11-10

54: AUDIO ENCODERS, AUDIO DECODERS, METHODS AND COMPUTER PROGRAMS ADAPTING AN ENCODING AND DECODING OF LEAST SIGNIFICANT BITS

00: -

An audio decoder for providing a decoded audio information on the basis of an encoded audio information is configured to obtain decoded spectral values on the basis of an encoded information representing the spectral values. The audio decoder is configured to jointly decode two or more most significant bits per spectral value on the basis of respective symbol codes for a set of spectral values using an arithmetic decoding, wherein a respective symbol code represents two or more most significant bits per spectral value for one or more spectral values. The audio decoder is configured to decode one or more least significant bits associated with one or more of the spectral values in dependence on how much least significant bit information is available, such that one or more least significant bits associated with one or more of the spectral values are decoded, while no least significant bits are decoded for one or more other spectral values for which one or more most significant bits are decoded and which comprise more bits than the one or more most significant bits. The audio decoder is configured to provide the decoded audio information using the spectral values. Modifications of the audio decoder are possible. An audio encoder is also described.



21: 2020/03456. 22: 2020/06/09. 43: 2021/06/09

51: F16L; G01B

71: China University of Petroleum—Beijing

72: XIONG, Yi, YU, Da, ZHAO, Kunpeng

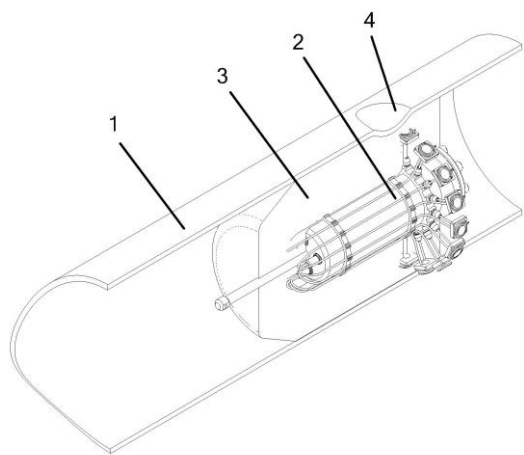
33: CN 31: 201711106329.6 32: 2017-11-10

54: DEFORMATION-INSPECTING PIPELINE CLEANING DEVICE

00: -

A deformation-inspecting pipeline cleaning device comprises: an inspection main body (2) and a foam member (3). The inspection main body (2) is provided within the foam member (3), and comprises a pressure sensing component (21). The pressure sensing component (21) comprises a pressure sensor (211) and a pressure coupling unit (212). An inner side surface of the pressure coupling unit (212) is in contact with a force receiving surface of the pressure sensor (211). An outer side surface of the pressure coupling unit (212) is in contact with an inner wall of a pipeline (1) to be inspected. The deformation-inspecting pipeline cleaning device achieves deformation inspection along the entire circumference for the pipeline to be inspected (1), and the pressure coupling unit (212) can deform

under pressure when encountering deformation of the pipeline (1), thereby resolving the problem in which an existing inspecting pipeline cleaning device easily becomes jammed in the pipeline (1).



21: 2020/03496. 22: 2020/06/11. 43: 2021/05/26

51: A01G; A01M; B05B

71: PUREST TASTE CC

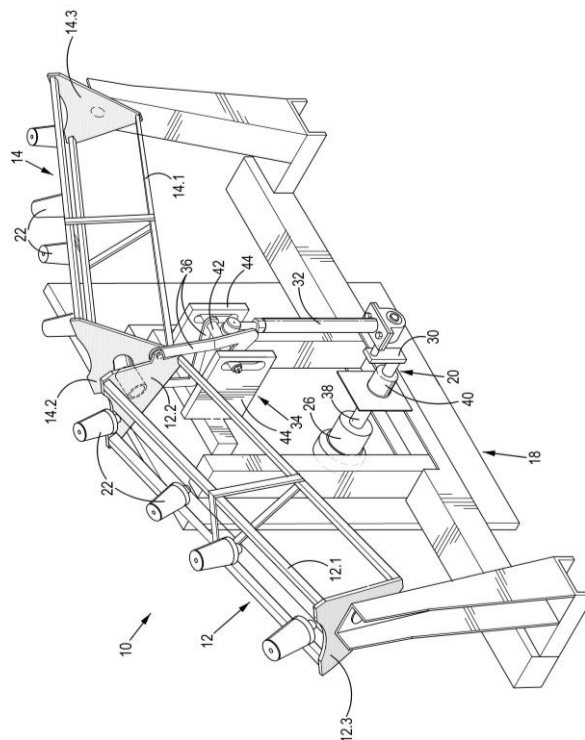
72: OBERHOLZER, Stephen Peter

33: ZA 31: 2019/03645 32: 2019-06-07

54: SPRAYING OF PLANTS FORMING AN OVERHEAD CANOPY

00: -

A sprayer (10) for spraying plants forming an overhead canopy includes at least one boom (12,14) configured to oscillate about a longitudinal axis of rotation, the longitudinal axis of rotation of the boom (12, 14) being angled relative to the horizontal at an angle of between about 0° and about 20° and extending sideways relative to a direction of travel of the sprayer (10) in use. The boom (12, 14) carries a plurality of longitudinally spaced spray nozzles (22) connected or connectable to a supply of an agrochemical with the nozzles (22) being configured to discharge a spray of the agrochemical upwards away from the boom (10). Drive means (20) drivingly oscillates the boom (12, 14) about the longitudinal axis of rotation.



21: 2020/03507. 22: 2020/06/11. 43: 2021/05/26

51: B66C; F16G

71: Konecranes Global Corporation

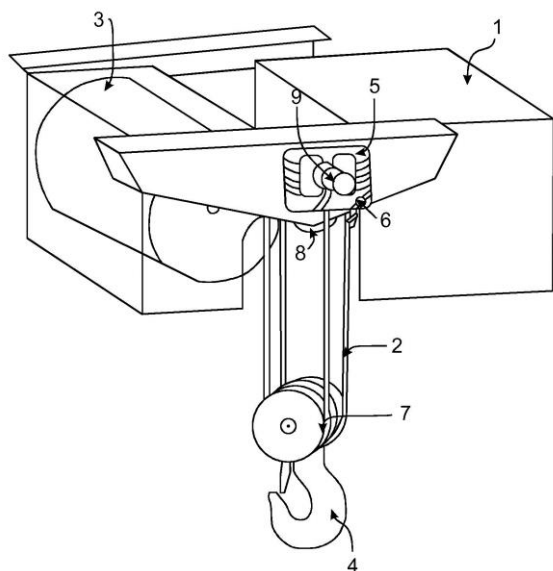
72: TÄHTINEN, Jenni, KOKKO, Henri, LAUKKANEN, Niko, ABASS, Adeyinka

33: FI 31: 20176108 32: 2017-12-12

54: FASTENING DEVICE FOR HOISTING ROPE OF HOISTING DEVICE

00: -

A hoisting device which comprises a body (1), a hoisting rope (2), a rope drum (3) arranged in connection with the body, on which a first end of the hoisting rope (2) 5 is fastened, and a hoisting part (4) which ascends and descends by means of the hoisting rope (2). Said hoisting device further comprises a fastening device (5) of a second end (2-2) of the hoisting rope (2), having at least one portion in which is formed a spiral groove (15) surrounding said portion and in which the part adjacent to the second end (2-2) of the hoisting rope (2) is received to surround said 10 portion. The hoisting device further has a fastening arrangement (6) which locks the second end (2-2) of the hoisting rope (2) to the fastening device (5), preventing the second end (2-2) from being pulled out of the fastening device (5).



21: 2020/03508. 22: 2020/06/11. 43: 2021/05/26
51: A61K; A61P
71: Win Medica Pharmaceutical S.A., Pharmaplot Private Company
72: KOSMIDIS, Marios, MAVROKORDOPOULOS, Spyridon

33: GR 31: 20180100359 32: 2018-08-02

54: INJECTABLE COMBINATION OF DICLOFENAC SODIUM AND THIOCOLCHICOSIDE

00: -

The present invention relates to stable injectable solutions comprising diclofenac sodium and thiocholchicoside as active ingredients and a liquid carrier comprising propylene glycol, benzyl alcohol and a polydentate ligand. The solutions may be stored for a prolonged period of time in a wide range of temperatures, without sedimentation of the active ingredients and / or chemical degradation thereof.

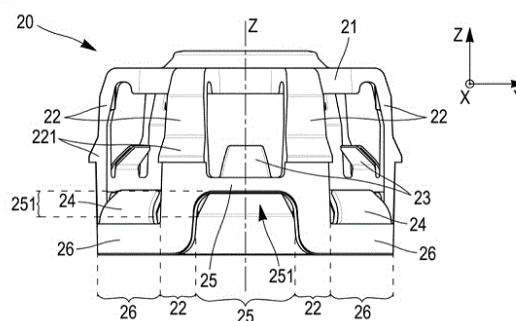
21: 2020/03523. 22: 2020/06/12. 43: 2021/05/26
51: A61J; B65B
71: A. RAYMOND ET CIE
72: REY, Gaëtan, CLAVEL, Maxime
33: FR 31: 1907693 32: 2019-07-09

54: LOCKING TOP FOR VESSEL HAVING A NECK

00: -

A locking top for blocking a stopper in the neck of a vessel includes an outer body, and a cage (20) which is configured to fit into and lock axially in the outer body. The cage (20) includes an upper ring

(21), a plurality n of branches (22) connected to the upper ring (21), $n/2$ median bridges (25) and $n/2$ lower bridges (26) arranged in alternation on the periphery of the cage (20), each connecting together two adjacent branches (22).



21: 2020/03555. 22: 12/06/2020. 43: 2021/07/06
51: G01N

71: SHUWEN BIOTECH CO., LTD.

72: LI, Xingmin, XU, Jun, TANG, Xiaobin, ZHANG, Jay Zhe

33: CN 31: 201711468345.X 32: 2017-12-28

33: CN 31: 201721889634.2 32: 2017-12-28

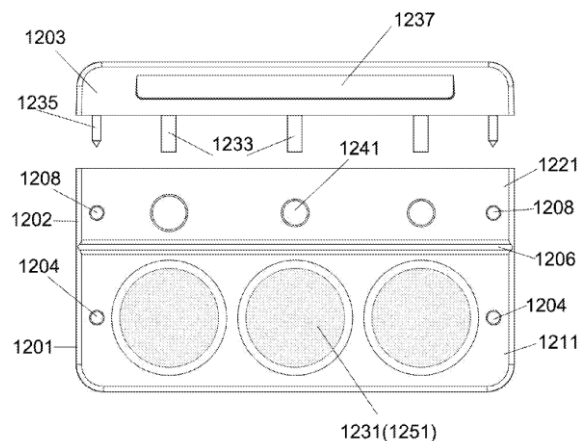
33: CN 31: 201811117548.9 32: 2018-09-20

54: APPARATUS, REAGENT KIT, AND METHOD FOR DETECTING MISFOLDED PROTEIN

00: -

Provided are an apparatus and reagent kit and method for detecting whether a sample contains a misfolded protein or a misfolded protein aggregate; said detection apparatus comprises a testing component and a spotting component; the testing component contains a microporous membrane; the spotting component contains a capillary. The reagent kit comprises a dye capable of combining with a misfolded protein and a microporous membrane; during detection, a to-be-tested sample and a dye are mixed together to form a mixed liquor; the capillary is used for absorbing the mixed liquor; the liquid outlet of the capillary is in contact with the microporous membrane; the mixed liquor is slowly released from the capillary tube onto the microporous membrane and dyes the microporous membrane; by means of observing the diffusion of the color, it is possible to determine whether the to-be-tested sample contains a misfolded protein or a misfolded protein aggregation. The test results can be identified by means of the naked eye or by an instrument, and are used for detecting samples from pregnant women and predicting, screening, and

diagnosing pre-eclampsia and eclampsia in pregnant women.

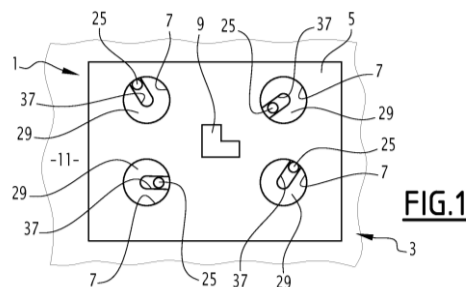


21: 2020/03578. 22: 15/06/2020. 43: 2021/07/01
51: E04B; F16B
71: FRAMATOME
72: NIEHAUS, Gaëtan, MORLOT, Pascal, HUREL, Jean-Charles
33: FR 31: 1762280 32: 2017-12-15

54: DEVICE AND METHOD FOR ANCHORING EQUIPMENT TO A CIVIL ENGINEERING STRUCTURE

00: -

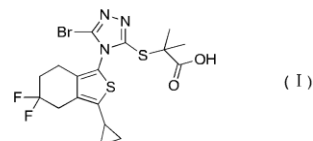
The anchoring device (1) comprises: - a support plate (5) for the equipment, with at least two orifices (7); - for each orifice (7), a longitudinal dowel (13) intended to be rigidly fastened in the civil engineering structure (3); - for each orifice (7), a fastening member (25) mounted around the dowel (13); - for each orifice (7), a connection (27) of the fastening member (25) to the plate (5), allowing the fastening member (25) to be placed at any given position in a defined region of the orifice (7) in a plane parallel to the plate (5); - for each orifice (7), a reversible lock (55) for blocking the fastening member (25) with respect to the plate in the given position and for blocking the fastening member in position along the dowel (13).



21: 2020/03581. 22: 15/06/2020. 43: 2021/07/01
51: A61K; C07D; A61P
71: MEDISHINE DISCOVERY INC.
72: WANG, Jianfei, ZHANG, Yang, ZHU, Wenyuan, LI, Jian, CHEN, Shuhui
33: CN 31: 201711181960.2 32: 2017-11-23
54: CRYSTAL FORM OF URAT1 INHIBITOR, AND PREPARATION METHOD THEREFOR

00: -

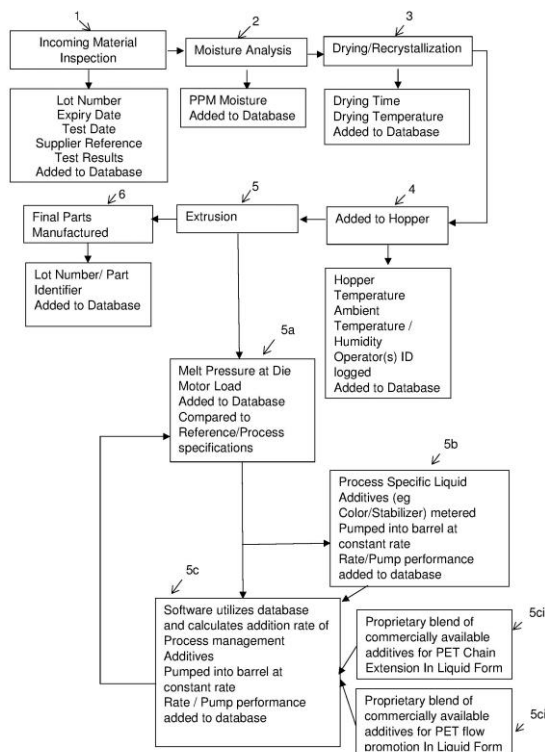
Disclosed are a crystal form of a URAT1 inhibitor, and a preparation method therefor.



21: 2020/03591. 22: 2020/06/15. 43: 2021/05/26
51: B29C; B29K
71: CRAIG, Douglas, MCKEOWN, Dave
72: CRAIG, Douglas, MCKEOWN, Dave
33: LT 31: LT2017540 32: 2017-12-08
54: PET PROCESSING SYSTEM AND METHOD

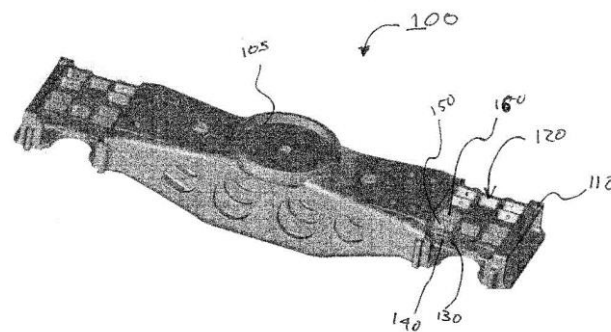
00: -

The invention addresses the above problems by tuning PET raw material processing process by employing real time process management and machine learning steps and reactive addition of dosing of homogenizing composition for impregnating chain extenders and compatibilizing agents in thermoplastic resin using the liquid additive as a carrier into the process for modifying material performance. The properties of PET blend are no longer fixed once dry-blending and melting is complete.



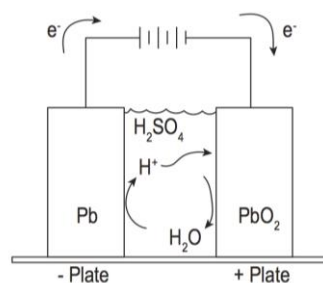
21: 2020/03617. 22: 17/06/2020. 43: 2021/06/22
 51: B61F
 71: AMSTED RAIL COMPANY, INC.
 72: COSEGLIA, John
 33: US 31: 62/597,992 32: 2017-12-13
54: RAILCAR TRUCK BOLSTER
 00: -

A rail car truck bolster wear plate surface connects to a wear plate using two fasteners of different length. The first fastener passes through an upper opening and an upper channel into a first recess where it can be tightened against a first engaging surface. The second fastener is longer than the first fastener and passes through a lower opening and lower channel into a second recess adjacent to the first recess. The surfaces of the first and second recesses form a series of ribs in the upper end surface between the wear plate surface and the longitudinal centerline of the bolster.



21: 2020/03633. 22: 17/06/2020. 43: 2021/07/06
 51: H01M
 71: ATTOSTAT, INC.
 72: NIEDERMEYER, WILLIAM
 33: US 31: 62/591,540 32: 2017-11-28
 33: US 31: 62/674,416 32: 2018-05-21
 33: US 31: 16/202,078 32: 2018-11-27
54: NANOPARTICLE COMPOSITIONS AND METHODS FOR ENHANCING LEAD-ACID BATTERIES
 00: -

This disclosure relates to compositions and methods for improving the performance of lead-acid batteries, including reviving or rejuvenating a partially or totally dead battery, by adding an amount of nonionic, ground state metal nanoparticles to the electrolyte of the battery, and optionally recharging the battery by applying a voltage. The metal nanoparticles may be gold and coral-shaped, and are added to provide a concentration within the electrolyte of 100 ppb to 2 ppm.



21: 2020/03698. 22: 19/06/2020. 43: 2021/06/23
 51: G06T
 71: ZENIMAX MEDIA INC.
 72: KOPIETZ, MICHAEL
 33: US 31: 62/488,526 32: 2017-04-21
 33: US 31: 62/640,945 32: 2018-03-09
 33: US 31: 62/644,164 32: 2018-03-16
 33: US 31: 62/634,464 32: 2018-02-23

54: PLAYER INPUT MOTION COMPENSATION BY ANTICIPATING MOTION VECTORS

00: -

The invention relates to a computer-implemented method of, and system for, motion estimation. A server, over a network, transmits an instruction to a client to query a lookup table for matching motion vectors upon the receipt of a player input. The server also transmits, over the network, an instruction to the client to associate a unique tag with the matching motion vectors from the lookup table and adds the tagged motion vectors to a queue. Furthermore, the server also transmits, over the network, a frame comprising motion vectors with a unique identifier tag to the client. The server also transmits, over the network, an instruction to the client to remove motion vectors from the queue that have a tag associated with the tagged frame received from the server. When the server transmits encoded video frames to the client, the client is instructed to decode the video frames to estimate motion.

configured to be stored at the client. The server also transmits an instruction to the client, over the network, to monitor for input data from a user. Furthermore, the server transmits, over the network, an instruction to the client to calculate a motion estimate from the input data. In addition, the server transmits, over the network, an instruction to the client to update the stored motion vector library. The client applies the stored motion vector library to initiate motion in a graphic interface prior to receiving actual motion vector data from the server.

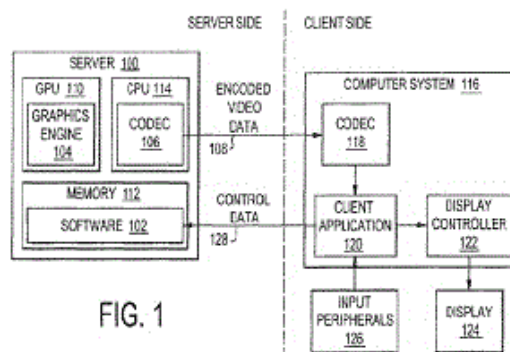


FIG. 1

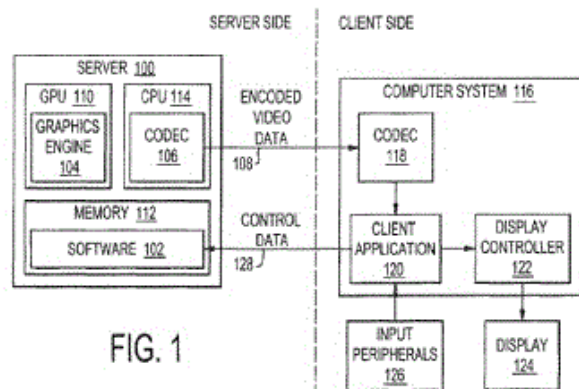


FIG. 1

21: 2020/03699. 22: 19/06/2020. 43: 2021/06/23

51: G06T

71: ZENIMAX MEDIA INC.

72: KOPIETZ, MICHAEL

33: US 31: 62/634,464 32: 2018-02-23

33: US 31: 62/644,164 32: 2018-03-16

33: US 31: 62/488,526 32: 2017-04-21

33: US 31: 62/640,945 32: 2018-03-09

54: PLAYER INPUT MOTION COMPENSATION BY ANTICIPATING MOTION VECTORS

00: -

The invention relates to a system and method for caching motion vectors. A server, over a network, transmits a previously generated motion vector library to a client, wherein the motion vector library is

21: 2020/03700. 22: 19/06/2020. 43: 2021/07/06

51: A61K; A61P

71: WELLSTAT THERAPEUTICS CORPORATION

72: VON BORSTEL, Reid W., GARCIA GARCIA, Rolando, Alejandro

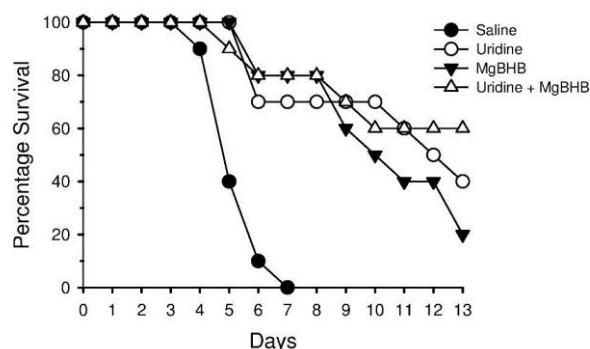
33: US 31: 62/624,911 32: 2018-02-01

33: US 31: 62/715,848 32: 2018-08-08

54: COMPOSITIONS AND DEVICES FOR SYSTEMIC DELIVERY OF URIDINE

00: -

A solution of uridine in saline, and optionally also containing beta-hydroxybutyrate, can be administered subcutaneously. A reservoir capable of holding a uridine solution in saline is described, the reservoir being fluidically linked to one or more infusion needles, and a pump configured to move the solution from the reservoir through the one or more infusion needles into a subject.



21: 2020/03767. 22: 22/06/2020. 43: 2021/07/06
51: A24F

71: HUBEI CHINA TOBACCO INDUSTRY CO., LTD.

72: LIU, Huachen, CHEN, Yikun, LIU, Lei, DONG, Aijun, KE, Weichang, LIU, Bing, LUO, Chenghao
33: CN 31: 201711224908.0 32: 2017-11-29

54: AXIALLY ROTATING ELECTRIC HEATING DEVICE FOR EXTRACTING TOBACCO

00: -

An axially rotating electric heating device for extracting tobacco, comprising a heating cavity outer shell (6), a heating cavity inner shell (8), and a heating assembly (11); the heating assembly (11) comprises a heating cavity that accommodates a smoking product and a heating element located in a cigarette heating cavity; the heating cavity is surrounded by the heating cavity inner shell (8); the heating element (11) may be inserted into the smoking product so as to heat the smoking product; the heating cavity inner shell (8) is located at the front end of the heating assembly (11); the heating cavity outer shell (6) and the heating cavity inner shell (8) form an integral body; the heating cavity may rotate relative to the axis of the heating element (11) to separate the smoking product from the heating element, thereby facilitating the extraction of the smoking product after smoking is finished.

Configuring the heating cavity to be able to axially rotate relative to the heating element may effectively separate a cigarette from a needle-type heater; and after the cigarette is loosened from the needle-type heater, a tobacco section (12) in the cigarette becomes looser, thereby more easily extracting the tobacco part so that said tobacco will not remain inside of the heating cavity.

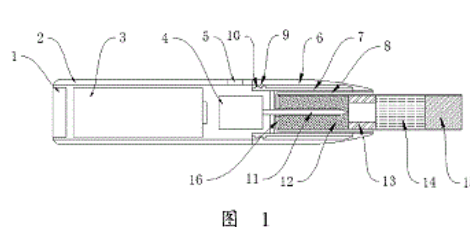


图 1

21: 2020/03800. 22: 2020/06/23. 43: 2021/05/26
51: F17C

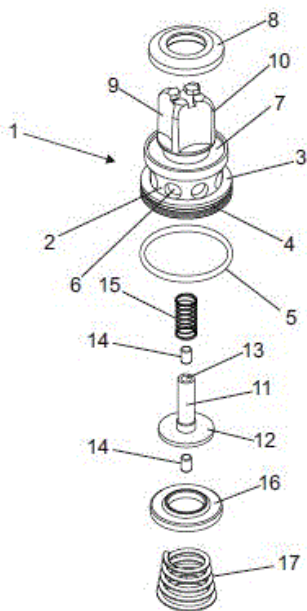
71: SCG (Thailand) Co., Ltd.

72: PREMSOMBAT, Winyoo

54: GAS REFILL PREVENTION MECHANISM OF A COOKING GAS VALVE

00: -

A gas refill prevention mechanism of a cooking gas valve, comprising a piston valve with the peripheral edge on one end of the body section being an outer flange with a groove for receiving an O-ring; the lateral side around the body section having a number of gas inlet and outlet holes; the peripheral edge on the other end of the body section being a supporting groove for coupling with a gasket, wherein next to the supporting groove is a valve lower part having a shaft installed inside the body of the piston valve; the peripheral edge on one side of the shaft being an end washer; the inner core on each end of the shaft serving as a securing hole for embedding a magnet inside the shaft; a first spring covering the length of the shaft with one end of the first spring placed on the end washer of the shaft; a washer piece attached to the inner edge of the outer flange of the piston valve, wherein the inner side of the washer piece is used for receiving the end washer of the shaft while the outer side of the washer piece is attached to the second spring to control the inward and outward movements of the gas refill prevention mechanism of a cooking gas valve.

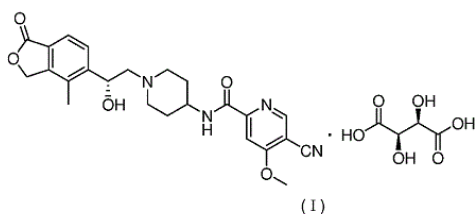


21: 2020/04017. 22: 01/07/2020. 43: 2021/05/28
 51: A61K; C07D; A61P
 71: JIANGSU HENGRUI MEDICINE CO., LTD
 72: WU, Guaili, ZHANG, Quanliang, LU, Yun, YAO, Fei

33: CN 31: 201711273099.2 32: 2017-12-06
54: CRYSTAL FORM OF RENAL OUTER MEDULLARY POTASSIUM CHANNEL INHIBITOR AND PREPARATION METHOD THEREOF

00: -

The present invention provides a crystal form of a renal outer medullary potassium channel inhibitor and a preparation method thereof. In particular, the present invention provides crystal form III of a L-tartrate of a renal outer medullary potassium channel (ROMK) inhibitor (I) and a preparation method thereof. The crystal form III has good chemical stability and crystal form stability, and the crystallization solvent used has low toxicity and residue. Thus, the present invention can be better used in clinical treatment.



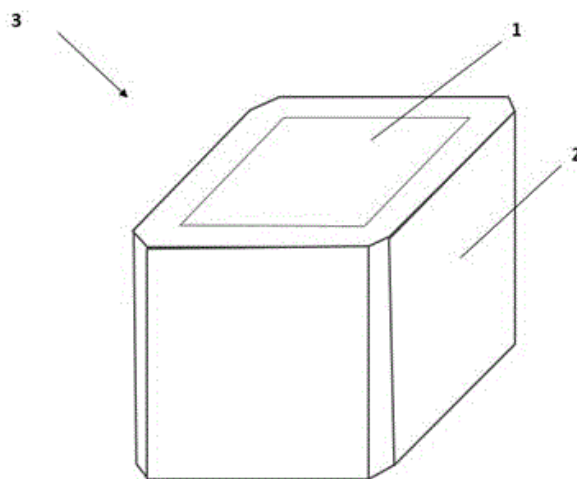
21: 2020/04018. 22: 01/07/2020. 43: 2021/05/28
 51: B65D

71: MADECA - MADEIRAS DE CAXARIAS, S.A.
 72: DE ALMEIDA VERDASCA PEREIRA, Paulo, Manuel

54: PALLET BLOCK, PALLET INCLUDING SAME AND PROCESS FOR OBTAINING SAME

00: -

The present invention applies to the area of pallets and more particularly to that of the pallet blocks that form the base of a pallet or that lie between the two layers of a pallet, thereby allowing the insertion of the forks of stacker machines and other mechanisms for movement and accommodation in a warehouse, means of transportation and containers. A further subject of the present invention is a pallet block (3) that has a wood particle board core (1) and an exterior wood particle board layer (2), the exterior layer (2) covering the core (1) at least partially, and the core (1)/exterior layer (2) assembly being obtained by being pressed. The aforesaid makes it possible to obtain a block (3) that supports high masses, without the entire block (3) being formed from wood particle board, that is robust and that does not require the elements to be adhesively bonded together.



21: 2020/04055. 22: 02/07/2020. 43: 2021/06/03
 51: A61K; C07D; C07K; A61P

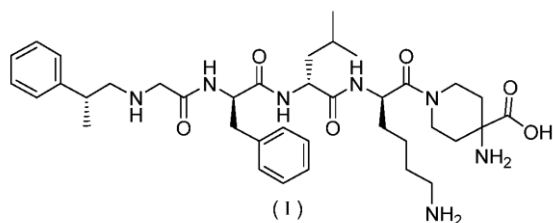
71: JIANGSU HENGRUI MEDICINE CO., LTD,
 SHANGHAI HENGRUI PHARMACEUTICAL CO. LTD.

72: WANG, Lin, YE, Jingquan, SHAO, Qiyun, FENG, Jun, HE, Feng, CAO, Xiaoli, MA, Yahui
33: CN 31: 201711272474.1 32: 2017-12-06

54: SALT OF PHENYLPROPIONAMIDE DERIVATIVE AND PREPARATION METHOD THEREFOR

00: -

The present invention provides a salt of a phenylpropionamide derivative and a preparation method therefor. The present invention specifically provides an acetate, hydrochloride, phosphate, citrate, benzoate, or fumarate of 4-amino-1-((2R,5R,8R,14R)-2-(4-aminobutyl)-8-benzyl-5-isobutyl-4,7,10-trioxo-14-phenyl-3,6,9,12-tetraazapentadecan-1-acyl)piperidine-4-carboxylic acid, and a preparation method therefor. The salt of the compound of formula (I) of the present invention has good stability, and the simple process thereof facilitates easy operation. The invention is better suited for clinical treatment.



21: 2020/04058. 22: 02/07/2020. 43: 2021/06/03
51: A61K

71: CELLIXBIO PRIVATE LIMITED

72: KANDULA, Mahesh

33: IN 31: 201841004306 32: 2018-02-05

33: IN 31: 201841008091 32: 2018-03-05

54: COMBINATION OF AN ANTIMUSCARINIC OR AN ANTICHOLINERGIC AGENT AND LIPOIC ACID AND USES THEREOF

00: -

The present disclosure relates to pharmaceutical compositions comprising a therapeutically effective amount of an antimuscarinic or an anticholinergic agent or a pharmaceutically acceptable salt or a stereoisomer thereof in combination with a therapeutically effective amount of lipoic acid or a pharmaceutically acceptable salt or a stereoisomer thereof. The antimuscarinic or anticholinergic agent is a compound of Formula I, Formula II, or Formula III and lipoic acid is a compound of Formula IV or Formula V. The Pharmaceutical composition is a

physical mixture of an antimuscarinic or an anticholinergic agent and lipoic acid.

21: 2020/04111. 22: 2020/07/06. 43: 2021/06/02

51: F01B; F02B

71: Patentec As

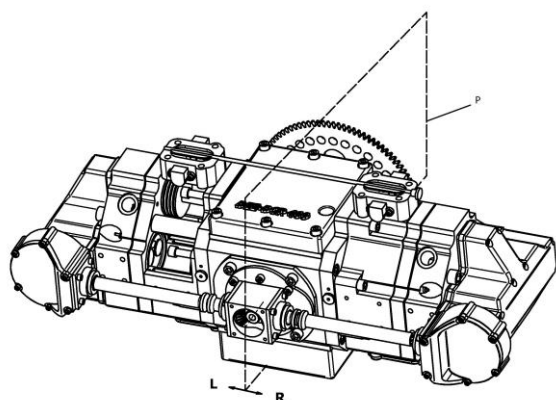
72: KAROLIUSSEN, Hilberg Inge

33: EP(NO) 31: 18153629.3 32: 2018-01-26

54: INTERNAL COMBUSTION ENGINE

00: -

It is disclosed a boxer engine with two substantially mirror-symmetric engine sides (L, R) comprising a crankshaft (1) to which is connected, at least two main scotch yoke assemblies (110) each having one main piston (7) arranged inside one main cylinder (I, III; II, IV) of each engine side (R; L), and at least one auxiliary scotch yoke assembly (120) having a pair of auxiliary pistons (8) arranged inside a pair of auxiliary cylinders (V, VII; VI, VIII) of each engine side (R; L), wherein the main scotch yoke assemblies (110) are arranged synchronized on the crankshaft (1) and the at least one auxiliary scotch yoke assembly (120) is arranged 180° offset on the crankshaft (1), each auxiliary piston (7) defining an outer space and an inner space within each auxiliary cylinder (V, VII; VI, VIII), the inner space facing the opposite engine side (R; L), wherein, said inner spaces of each auxiliary cylinder (V, VII; VI, VIII) pair are in fluid communication and forming a compression chamber, said compression chamber comprises first and second check valves (69, 70), wherein the auxiliary cylinder (V, VII; VI, VIII) pair is adapted to suck in ambient air through the first check valve (69) and compress and pump said air out through the second check valve (70) into a main cylinder (I, III; II, IV) of the opposite engine side (R; L), and said outer spaces of each auxiliary cylinder (V, VII; VI, VIII) pair are in fluid communication and are receiving pressurized exhaust gas from a main cylinder (I, III; II, IV) of the same engine side (R; L).



21: 2020/04118. 22: 06/07/2020. 43: 2021/06/02

51: B03D; B01J; B01F; C02F

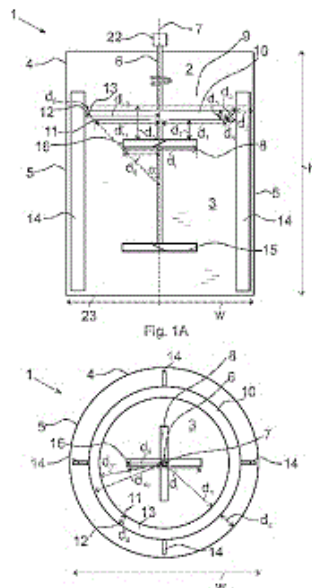
71: OUTOTEC (FINLAND) OY

72: LATVA-KOKKO, MARKO

54: REACTOR FOR GAS-LIQUID MASS TRANSFER

00: -

A reactor (1) for gas-liquid mass transfer between a gas (2) and a liquid or slurry (3) is disclosed, the reactor comprising a tank (4) for receiving the liquid or slurry, the tank having a wall (5); a drive shaft (6) extending vertically in the tank and rotatable about a vertical axis (7); an upward pumping impeller (8) for creating a flow of the liquid or slurry received in the tank generally upward and at the surface (9) of the liquid or slurry; and an aerating apparatus (10) disposed above the upward pumping impeller and extending between the drive shaft and the wall of the tank at a first distance (d_1) from the drive shaft and at a second distance (d_2) from the wall of the tank, the aerating apparatus encircling the drive shaft at least partially. The aerating apparatus has a lower edge (11) and an upper edge (12) and, extending between the lower edge and the upper edge, an outward inclined or curved inner surface (13) for directing at least a part of the flow over the inner surface outward from the vertical axis and over the upper edge.



21: 2020/04148. 22: 2020/07/07. 43: 2021/06/02

51: A01N; C07D

71: Syngenta Participations AG

72: LING, Kenneth Bruce, MATHEWS, Christopher John, O'RIORDAN, Timothy Jeremiah Cornelius, SHANAHAN, Stephen Edward, TATE, Joseph Andrew, KITSIOU, Christiana, SEDEN, Peter Timothy

33: GB 31: 1800305.3 32: 2018-01-09

54: HERBICIDAL COMPOUNDS

00: -

The present invention relates to herbicidal substituted phenyl-pyridazine-diones and substituted phenyl-pyridazinone derivatives of formula (I), as well as to processes and intermediates used for the preparation of such derivatives. The invention further extends to herbicidal compositions comprising such derivatives, as well as to the use of such compounds and compositions in controlling undesirable plant growth: in particular the use in controlling weeds, such as broad-leaved dicotyledonous weeds, in crops of useful plants.

21: 2020/04166. 22: 2020/07/08. 43: 2021/05/28

51: G06F

71: SKYBOLT, SKYBOLT

72: SOMA, Nitin

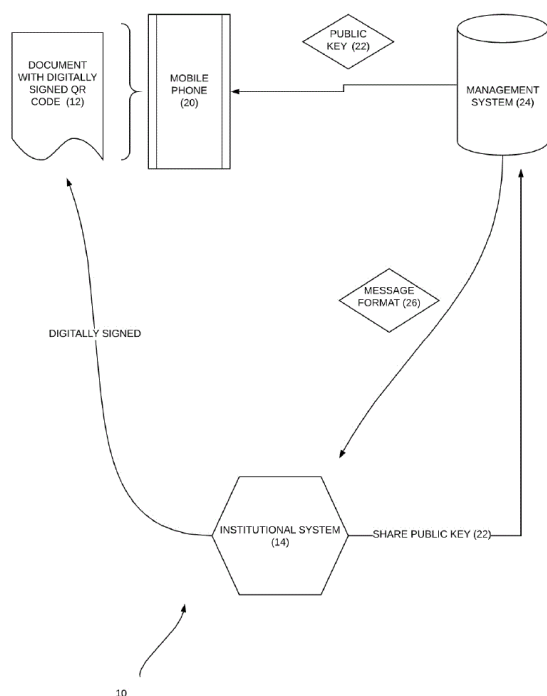
33: ZA 31: 2019/07439 32: 2019-11-11

54: SYSTEM AND METHOD FOR VERIFYING AUTHENTICITY OF A DOCUMENT

00: -

A system for verifying the authenticity of a document which includes an institutional system configured to

digitally sign at least a portion of plaintext contents of the document into an encrypted code, and, a receiving device configured to receive, verify and display the contents of the digitally signed code in plaintext form, so as to enable a recipient of the digitally signed code to compare the verified plaintext form with the plaintext contents of the document to determine whether the plaintext contents of the document have been altered from the verified plaintext form.



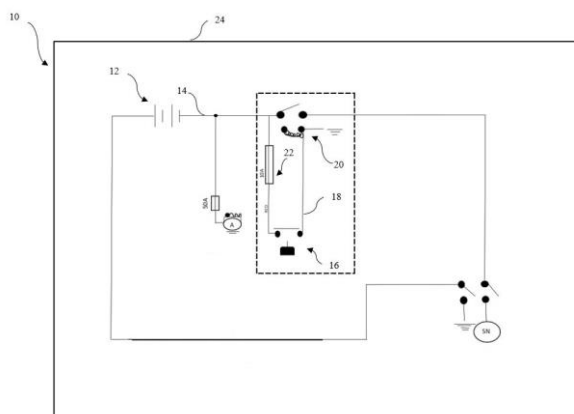
21: 2020/04226. 22: 2020/07/10. 43: 2021/06/30
51: H01H
71: Pyze Auto Electrical & Electrical Contractors (Pty) Ltd.
72: NEL, Pieter

54: FIRE SUPPRESSION CUT-OFF DEVICE

00: -

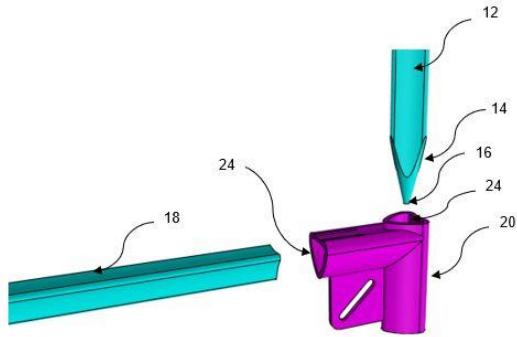
A fire protection system that finds useful application when used with machines used in the mining and construction industry. More particularly, a fire suppression cut-off device for mining and industrial machines having a main electric circuit connectable to a main power source that actuates said machine, the fire suppression cut-off device comprising a sensor arranged to continuously monitor whether a variable in the vicinity of the machine falls within or

outside set boundaries v_{min} to v_{max} , the sensor operatively being in communication via a wiring harness with an electromagnetic relay in the main electric circuit, which relay is adapted to interrupt flow of current from the power source to the machine upon receipt of a measurable electrical signal from the sensor indicating a reading of the variable outside the boundaries v_{min} to v_{max} .



21: 2020/04229. 22: 2020/07/10. 43: 2021/06/30
51: A47F
71: BREGMAN, Larry Dean, DA CONCEICAO, Janine
72: BREGMAN, Larry Dean, DA CONCEICAO, Janine
33: ZA 31: 2019/04541 32: 2019-07-11
54: STRUCTURAL KIT AND METHOD OF ASSEMBLING AND MANUFACTURING COMPONENTS THEREOF
00: -

A structural kit that can be easily assembled to form a variety of structures selected from frames, stands, displays, saliva transmission protection screens, camping structures, plant locating structures to name but few, the structural kit comprising a framework having a first end and a second end, which second end functions, in use, as a ground or anchor engaging member for securing the structure, when assembled, into the ground; and at least one coupling for securement of the first end to part of the framework, characterized in that the coupling is constituted by a casing defining a first socket for operatively snugly locating said first end and a second socket for operatively snugly locating part of said framework.



21: 2020/04230. 22: 2020/07/10. 43: 2021/05/28

51: H01B

71: THE TRUSTEES FOR THE TIME BEING OF
THE LIVE LINE INTERNATIONAL TRUST

72: RISI, Kevin Philip, RISI, Shaun Lawrence, RISI,
Philip Edward Lawrence

**54: SUPPORT ARRANGEMENT FOR AN
ELECTRICAL PROTECTION ASSEMBLY**

00: -

A support arrangement for an electrical protection assembly for connection between an electrical power supply line and electrical equipment is provided. The support arrangement comprises a central support structure with a main, substantially straight, insulator; and a support arm extending transversely to, and thus away from, the central support structure, wherein the central support structure and the support arm are integrally formed into a unitary body. The support arm extends from a lower end of the central support structure, at right angles thereto, so as to define a unitary L-shaped body. A displaceable upper arm extends across the top of the central support structure, with a fuse cutout assembly comprising a fuse tube extending on the side of the support structure with the lower support arm, and on the other side of the central support structure there is a surge protection assembly comprising a drop out voltage surge protection unit.

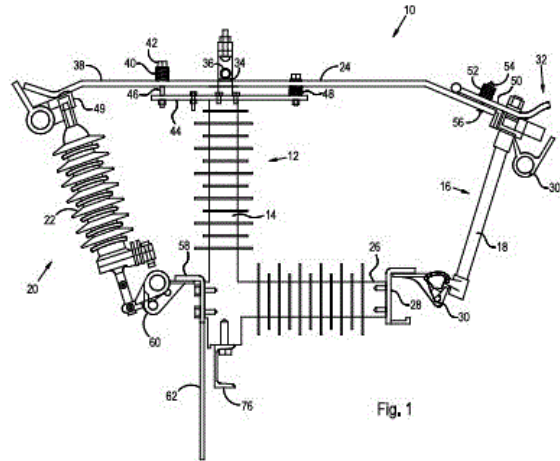


Fig. 1

21: 2020/04275. 22: 2020/07/13. 43: 2021/06/02

51: E21B

71: CATERPILLAR GLOBAL MINING EQUIPMENT
LLC, CATERPILLAR GLOBAL MINING HMS GMBH

72: GUNDA, RAJESH R, MOBERG, CARL J,
DIEKMANN, TIMO, HOULT, ROSS L

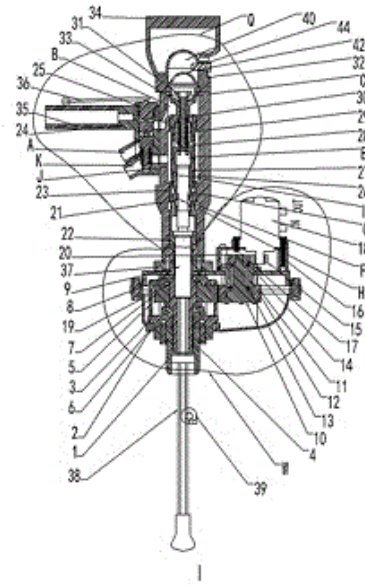
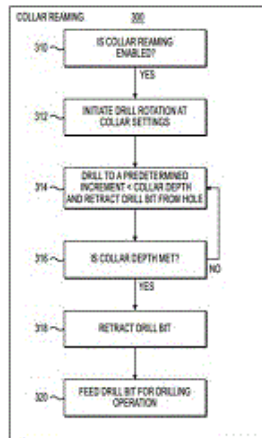
33: US 31: 62/876,481 32: 2019-07-19

33: US 31: 16/921,108 32: 2020-07-06

**54: COLLAR CONTROL SYSTEM FOR MOBILE
DRILLING MACHINES**

00: -

A collar control system and methods for mobile drilling machines are disclosed. One method may include: automatically initiating rotation of a drill bit based on collar settings; automatically feeding the drill bit at a feed rate to form an initial hole at a predetermined reaming increment; and automatically retracting the drill bit from the initial hole when the predetermined reaming increment is achieved, but prior to reaching a collar depth. Another method may include: measuring values of multiple drill bit inputs at a predetermined sample depth region during the collar operation; storing average values for each of the drill bit inputs over the predetermined sample depth region; monitoring values of the drill bit inputs when the drill bit moves beyond the predetermined sample depth region; and ending the collar operation prior to a desired collar depth when any of the monitored values change by a predetermined threshold.



21: 2020/04328. 22: 14/07/2020. 43: 2021/06/30

51: E21B

71: SHANDONG TIANRUI HEAVY INDUSTRY CO, LTD, SHANDONG TIANRUI HEAVY INDUSTRY CO, LTD

72: LI, YONGSHENG, WANG, WEILIN, YANG, QI, ZHANG, FENGQIN, WANG, QIUJING

33: CN 31: 201711386023.0 32: 2017-12-20

54: CLOSED HYDRAULIC ROCK DRILL

00: -

A closed hydraulic rock drill, comprising an outer cover (2), a bit shank sleeve (4), a drill rod (38), and a piston (9). The bit shank sleeve (4) is disposed in the outer cover (2); one end of the drill rod (38) is fixed in the bit shank sleeve (4); the piston (9) is fixed in the bit shank sleeve (4) and is fixedly connected to the drill rod (38). The closed hydraulic rock drill further comprises a hydraulic motor (18) disposed on the outer cover (2). The hydraulic motor (18) drives, by means of a transmission device, the bit shank sleeve (4) to rotate.

21: 2020/04346. 22: 15/07/2020. 43: 2021/05/28

51: B62B

71: YIFRAH, Nir

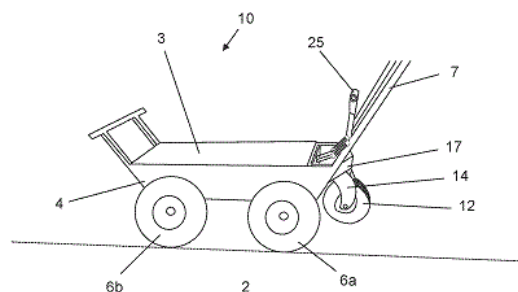
72: YIFRAH, Nir

33: IL 31: 256426 32: 2017-12-19

54: STEERABLE MULTI-TERRAIN CART AND METHOD THEREFOR

00: -

A multi-terrain cart, comprising a cart body, two front and two rear non-pivoting wheels, a swivel wheel positioned forwardly or rearwardly to the front and rear non-pivoting wheels, respectively, an actuator for applying a downward force to the swivel wheel which causes the swivel wheel to be set at an operative position and two of the non-pivoting wheels to be raised relative to an underlying ground surface, and means for setting an angle of the swivel wheel relative to a lengthwise extending centerline of the cart body to cause the cart to rotate about a center of rotation that is determined by the set angle of the swivel wheel.



21: 2020/04352. 22: 2020/07/15. 43: 2021/06/23
51: A01N; C07C; C07D

71: Syngenta Participations AG

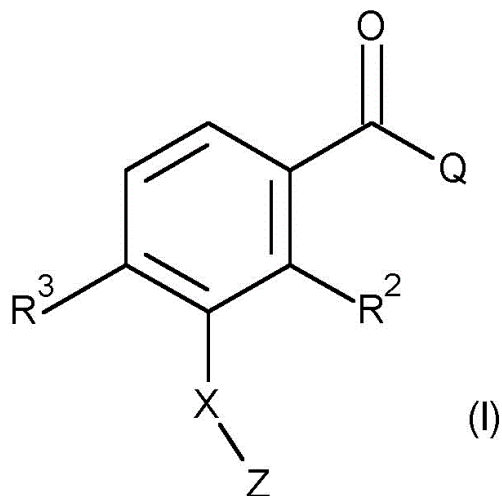
72: BURTON, Paul Matthew, SMITH, Alexander
Martin Richard, EMERY, Katie

33: GB 31: 1800894.6 32: 2018-01-19

**54: AMIDINE SUBSTITUTED BENZOYL
DERIVATIVES USEFUL AS HERBICIDES**

00: -

The present invention related to compounds of Formula (I): or an agronomically acceptable salt thereof, wherein Q, X, Z and R² and R³ are as described herein. The inventions further relates to compositions comprising said compounds, to methods of controlling weeds using said compositions, and to the use of Compounds of Formula (I) as a herbicide.



21: 2020/04400. 22: 2020/07/17. 43: 2021/06/03
51: B66C; B66F

71: Clarke's Crane and Grab Sales cc

72: CLARKE, Walter William

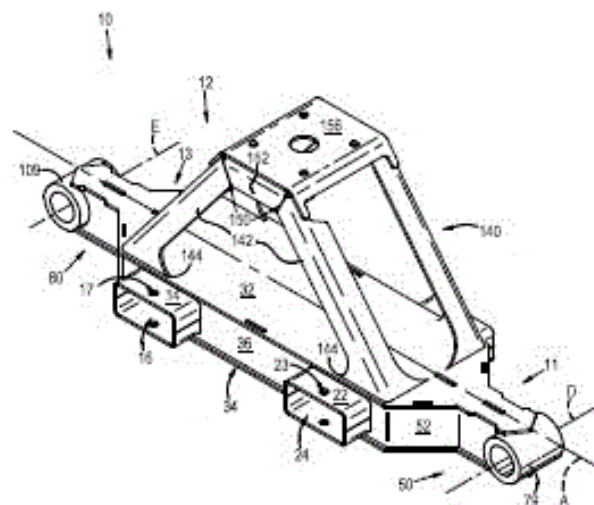
33: ZA 31: 2019/04684 32: 2019-07-17

54: GRAB

00: -

The invention relates to a grab component comprising an elongate base and an arrangement of

support arms extending upwardly from the base. The arrangement of support arms are being configured to connect to a rotator. The base comprises opposite side walls which define at least one passage which extends between the opposite side walls of the base. The at least one passage is arranged to receive and accommodate one or more prongs of a forklift, in use. The invention also extends to a grab comprising the grab component and actuatable arms fitted to the grab component for being actuated between a rest, extended configuration, and a retracted configuration in which the grab arms are arranged to grab an object, such as a pile of bricks for loading or unloading from a vehicle.



21: 2020/04406. 22: 2020/07/17. 43: 2021/06/03
51: A61K; A61P

71: SHENZHEN UNIVERSITY, SHENZHEN
UNIVERSITY GENERAL HOSPITAL

72: WANG, LI, ZHANG, QIAN, YAN, HONG, LYU,
YANSI, HUANG, JINGKAI, YU, NA, LIU, JIE, KONG,
YI, ZHANG, XIAODONG, WEN, ZIPING

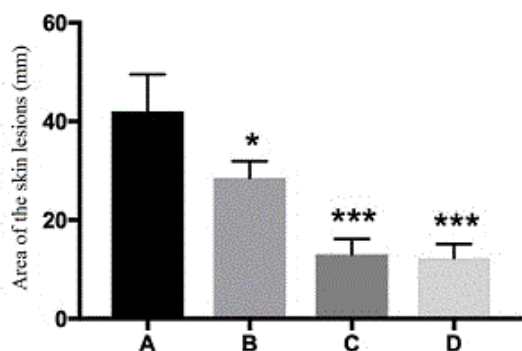
33: CN 31: 202010170676.0 32: 2020-03-12

**54: USE OF QUININE OR PHARMACEUTICALLY
ACCEPTABLE SALT THEREOF IN THE
MANUFACTURE OF MEDICAMENT FOR
TREATING ATOPIC DERMATITIS**

00: -

The invention relates to use of quinine or a pharmaceutically acceptable salt thereof in the manufacture of a medicament for treating atopic dermatitis, and a medicament for treating atopic dermatitis. A mouse model of atopic dermatitis is established in the experimental example. Saline

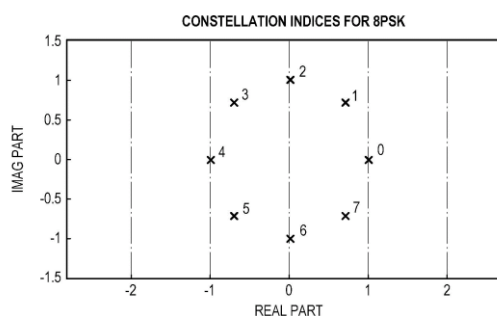
solutions of quinine are applied onto skin lesions. As a result, the area of the skin lesions is significantly reduced. Further research showed that quinine can significantly reduce pathological damage in mice, activate expressions of bitter taste receptors (T2Rs) and filaggrin, inhibit IgE (serum immunoglobulin E) in blood and secretions of cytokines such as IL-1 β , IL-4, IL-5, IL-13 and IL-33 in skin lesions of mice, thereby improving skin condition and enhancing skin barrier function, inhibiting occurrence of allergic reactions, alleviating damage to the skin caused by the immune response, indicating quinine is safe and effective in treating skin lesions caused by atopic dermatitis.



21: 2020/04412. 22: 2020/07/17. 43: 2021/06/04
 51: C07C
 71: LANXESS Deutschland GmbH
 72: LAUFER, Wilhelm
 33: EP(DE) 31: 17209011.0 32: 2017-12-20
54: METHOD FOR PRODUCING CARBODIIMIDES
 00: -
 The invention relates to a novel method for producing carbodiimides.

21: 2020/04415. 22: 2020/07/17. 43: 2021/06/03
 51: H04B
 71: LISNR, Inc.
 72: PRINCE, Daniel Paul, FARRAR, Rebekah L., KNAUER, William
 33: US 31: 15/847,205 32: 2017-12-19
54: PHASE SHIFT KEYED SIGNALING TONE
 00: -
 A disclosed device 2010, 2300 is configured to generate and transmit a sonic signal 2012 that encodes a symbol sequence, representing a data message, for delivery as audio content. The device includes an audio transmitter and a processor circuit.

The processor circuit is configured to encode the data message as a sequence of symbols 2034, with each symbol 1802 encoding a data value that is associated with respective phase characteristics of a transmitted audio carrier. The processor is further configured to generate 2102 audio samples of a digitized version of the sequence of symbols using the phase characteristics of the audio carrier associated with the symbols, and to control 2108 the audio transmitter to generate and transmit the sonic signal, based on the audio samples. A further disclosed device 2014 is configured to receive 2202 the sonic signal and to decode 2210 a symbol sequence by identifying symbols corresponding to determined phases of the sonic signal.



21: 2020/04451. 22: 2020/07/20. 43: 2021/06/23
 51: C12Q
 71: JIANGSU ACADEMY OF AGRICULTURAL SCIENCES
 72: YANG, LEILEI, LI, WENLIANG, MAO, LI, HAO, FEI, LI, JIZONG, ZHANG, WENWEN, JIANG, JIEYUAN, SUN, MIN, LIU, MAOJUN
 33: CN 31: 201910654233.6 32: 2019-07-19
54: DUPLEX FLUORESCENCE QUANTITATIVE RT-PCR KIT FOR DIFFERENTIAL DETECTION OF NSS-DELETION TYPE FROM WILD-TYPE OF RIFT VALLEY FEVER VIRUS
 00: -
 The present invention provides a duplex fluorescence quantitative RT-PCR method for the differential detection of rift valley fever virus. The present invention provides a pair of specific detection primers L-F, L-R and a fluorescent probe L-P for the L gene of RVF virus, a pair of specific detection primers S-F, S-R and a fluorescent probe S-P for the S fragment of RVF virus, and optimizes the concentration and reaction conditions for the specific primers and fluorescent probes of the method. The duplex fluorescence quantitative RT-

PCR method provided by the present invention can detect the infection of rift valley fever virus, and can also identify the wild strain of rift valley fever virus and NSs deletion strain (including Clone 13 and other deletion strains), so as to distinguish the infected animals from the immunized animals.

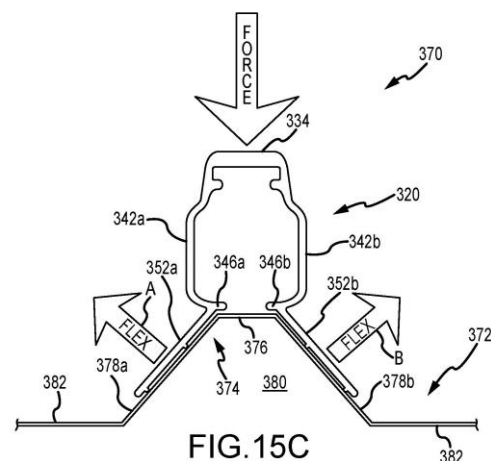
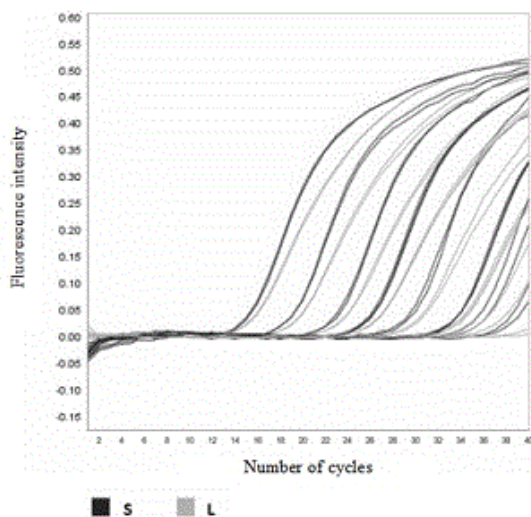


FIG. 15C

21: 2020/04484. 22: 2020/07/21. 43: 2021/06/28

51: G01M

71: Qilu University of Technology

72: SUN, Kai, WU, Xiuliang, ZHANG, Fangfang, MA, Fengying, SUN, Mingcan

33: CN 31: 201910660482.6 32: 2019-07-22

54: SOFT-SENSING METHOD AND SYSTEM FOR COMPREHENSIVE HYDRAULIC CYLINDER TEST BENCH

00: -

The present invention provides a soft-sensing method and system for a comprehensive hydraulic cylinder test bench. The method includes the step of designing a mutual information long short-term memory (MI-LSTM) algorithm to process historical data and then predicting displacement; and embedding the MI-LSTM algorithm in LabVIEW to predict displacement of a tested hydraulic cylinder online in real time. The LSTM network prediction method based on MI combines the respective characteristics of the MI algorithm and the LSTM network. Compared with a conventional linear modeling or neural network modeling algorithm, the MI algorithm is used for performing variable filtering. This provides a large amount of effective input data for the LSTM network model, thereby improving the prediction accuracy and reducing the complexity of the model. The MI-LSTM algorithm is embedded into a LabVIEW soft-sensing system, which has accuracy in prediction and low calculation costs.

21: 2020/04483. 22: 2020/07/21. 43: 2021/06/28

51: F16B; F16M; H01L

71: RMH Tech LLC

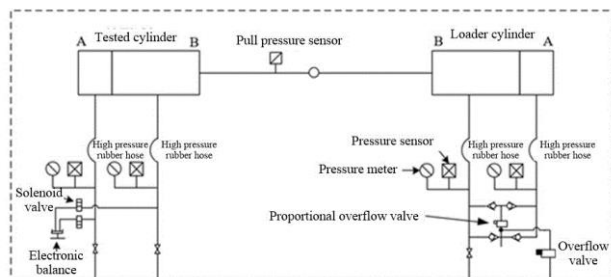
72: HADDOCK, Dustin M.M., HADDOCK, Robert M.M., HOLLEY, Nikolaus J.

33: US 31: 62/368,831 32: 2016-07-29

54: TRAPEZOIDAL RIB MOUNTING BRACKET WITH FLEXIBLE LEGS

00: -

A mounting bracket (320) for trapezoidal rib profiles is disclosed. This mounting bracket (320) includes an upper section (330) and a lower section (350). A first leg (352a) in a second leg (352b) extend from a lower portion of the upper section (330) in diverging relation to one another. Each of these legs (352a, 352b) is deflectable through a certain range of motion to accommodate installation of the mounting bracket (320) on a variety of different trapezoidal rib profiles.



21: 2020/04489. 22: 2020/07/21. 43: 2021/06/23
51: F24F

71: TERRAVENT (PTY) LTD

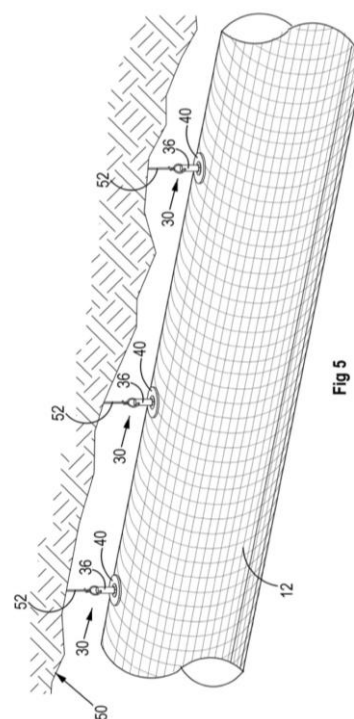
72: VAN SCHOOR, Martin John

33: ZA 31: 2019/04905 32: 2019-07-26

54: VENTILATION DUCT

00: -

The invention provides a flexible ventilation duct defined by a tubular body of woven polypropylene material, which includes conductive strands disposed on the tubular body. The invention further provides to a ventilation duct kit. The ventilation duct kit includes a flexible ventilation duct and a plurality of conductive fasteners. The plurality of conductive fasteners are attachable to the flexible ventilation duct so that an electrical connection is made between the plurality of conductive fasteners and the conductive strands on the tubular body of the flexible ventilation duct, in use to electrically ground the flexible ventilation duct. The invention extends to a ventilation installation, which includes a ventilation kit installed onto an overhead support by means of conductive tensile elements attaching the plurality of conductive fasteners to the overhead support and grounding the flexible ventilation duct.



21: 2020/04490. 22: 2020/07/21. 43: 2021/06/23
51: B62D

71: DORRINGTON, GERALD

72: DORRINGTON, GERALD

54: SPARE WHEEL CARRIER

00: -

The invention provides a spare wheel carrier for supporting a spare wheel at a rear end of a vehicle, which carrier includes: a frame to which the spare wheel is mounted, which includes at least a first member and which at least one member has an attachment part and a locking part which is spaced from the attachment segment; a mount which is adapted to be removably engaged to a cross beam at the rear end of the vehicle in rigid assembly; wherein the attachment part of the frame is pivotally engaged to the mount on a pivot axis to allow the frame to swivel about the pivot axis from a travel position, in which the locking part of the frame engages the mount to hold the spare wheel behind a tailgate at the rear end of the vehicle, and a rear access position in which the locking parties disengaged and spaced apart from the mount.

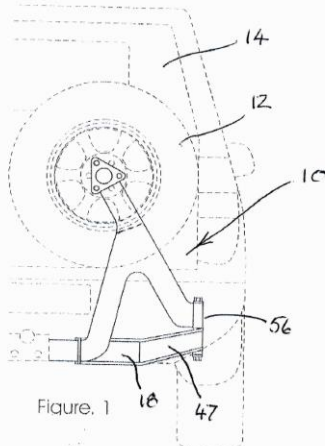
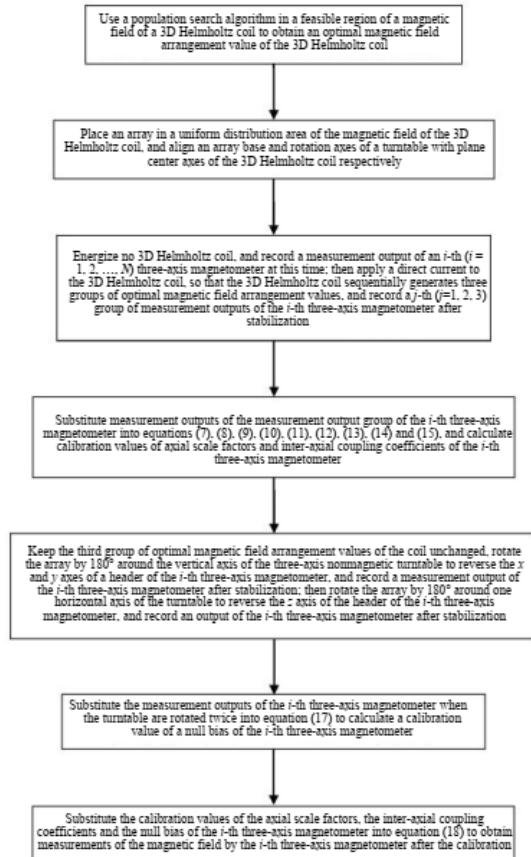


Figure. 1

21: 2020/04491. 22: 2020/07/21. 43: 2021/06/23
 51: G01R; G06F; G06N
 71: HARBIN ENGINEERING UNIVERSITY
 72: HUANG, Yu, WU, Lihua, WAN, Bowen, SHEN, Ying, YU, Qiang, GAO, Junqi
 33: CN 31: 201910660398.4 32: 2019-07-22
54: CALIBRATION METHOD FOR OPTIMAL MAGNETIC FIELD ARRANGEMENT OF 3D HELMHOLTZ COIL

00: -

Provided is a calibration method for an optimal magnetic field arrangement of a 3D Helmholtz coil. A linear difference equation set between an output of a triaxial magnetometer and a magnetic field to be measured is established; a population search algorithm is adopted, and a condition number of a coefficient matrix is taken as an optimization objective function; optimal arrangement values of the magnetic field are generated sequentially, the output of each three-axis magnetometer in a total of three groups of arrays is recorded after stabilization, and a difference is made with the output when the coil is not energized, to construct a difference equation set to obtain axial scale factors and inter-axial coupling coefficients of the three-axis magnetometer; the arrays are rotated, the outputs of each three-axis magnetometer during the two rotations are recorded respectively, the two outputs are averaged to obtain a null bias of each three-axis magnetometer.

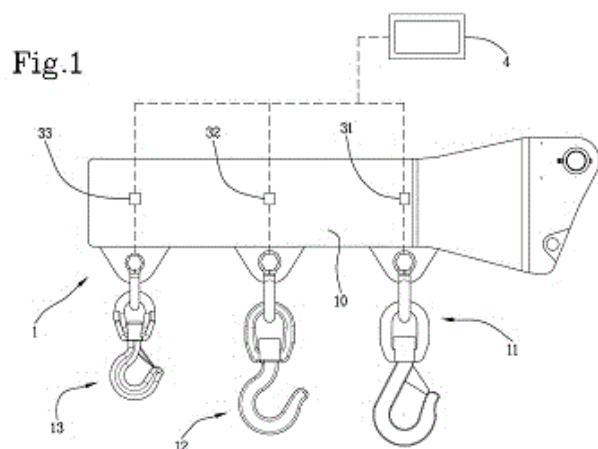


21: 2020/04520. 22: 2020/07/22. 43: 2021/06/23
 51: A23L
 71: PRELLER, Elmore, William
 72: PRELLER, Elmore, William
 33: ZA 31: 2019/04793 32: 2019-07-22
54: A FOOD DEHYDRATION SYSTEM
 00: -

A food dehydration system which includes a housing, a rotatable food support mountable inside the housing for supporting food during the dehydrating process, a heat source configured to increase the temperature of the food without increasing the temperature of air inside the housing, and a ventilation subsystem for conditioning the air inside the housing.

21: 2020/04525. 22: 2020/07/22. 43: 2021/06/23
 51: B66C; B66F
 71: MANITOU ITALIA S.R.L.
 72: IOTTI, MARCO
 33: IT 31: 102019000012957 32: 2019-07-25
54: IMPROVED ARM WITH TWO OR MORE HOOKS
 00: -

An arm with two or more hooks 1 comprises a supporting beam 1) designed to be connected to an operating arm 20 of a telehandler 2 or another self-propelled operating machine and a plurality of hooks 11, 12, 13, distributed along the beam 10, each designed for supporting a respective load. One or more hooks 11, 12, 13 are connected to a load sensor 31, 32, 33.



21: 2020/04532. 22: 22/07/2020. 43: 2021/06/04
51: C12N; C12P

71: SAMI LABS LIMITED

72: MAJEED, Muhammed, NAGABHUSHANAM, Kalyanam, MUNDKUR, Lakshmi

33: US 31: 62/610,565 32: 2017-12-27

54: COMPOSITIONS FOR THE MANAGEMENT OF HYPERGLYCEMIA AND RELATED CONDITIONS

00: -

Disclosed is a method for therapeutic management of hyperglycemia in mammals using compositions containing thymohydroquinone. More specifically, the invention discloses compositions containing thymohydroquinone for inhibiting the activity of the enzyme α -glucosidase and increasing the cellular uptake of glucose by mammalian cells. The antioxidant, anti-inflammatory and anti-glycation effects of thymohydroquinone are also disclosed herein.

21: 2020/04542. 22: 2020/07/22. 43: 2021/06/09
51: C01B; C05G

71: Agro Innovation International, Universite de Haute Alsace, Centre National de la Recherche Scientifique

72: PLUCHON, Sylvain K., YVIN, Jean-Claude, BRENDLE, Jocelyne, LIMOUSY, Lionel, DUTOURNIE, Patrick, MAILLARD, Anne, BRUNEAU, Marion, BENNICI, Simona
33: FR 31: 1850505 32: 2018-01-23

54: COMPOSITE BASED ON A LAMELLAR MATERIAL AND A POROUS MATERIAL COMPRISING AN ACTIVE SUBSTANCE AND/OR A MICRO-ORGANISM

00: -

The present invention relates to a process for preparing a porous composite material, a compound and a hybrid organic-inorganic material having a 2:1 lamellar structure, the hybrid material having the following general formula (I): $\text{Na}_x[(\text{Mg}_3)(\text{Al}_x(\text{RSi})_{4-x})\text{O}_{8-x}(\text{OH})_2]$ (I), in which x is a number such that $0 \leq x < 1.2$ and R stands for a C_1 - C_{30} alkyl group, an aryl group, a $(\text{C}_1$ - C_{30} alkyl) aryl group or a C_1 - C_{30} O-alkyl group, wherein the alkyl group can be substituted by a group selected from phenyl, vinyl, aminopropyl or mercaptopropyl groups and the compound is selected from the group comprising at least one active substance, at least one micro-organism and their mixtures, and the process comprising the following steps: (a) the sol-gel synthesis of the hybrid organic-inorganic material having a 2:1 lamellar structure in the presence of the compound and of the porous material saturated with the compound; (b) the recovery of the composite. The invention further relates to a composite that can be obtained by this process, to a composition containing this composition and to the use thereof, in particular for fertilising plants.

21: 2020/04543. 22: 2020/07/22. 43: 2021/06/09
51: A41G; B29D

71: YG Chem Co., Ltd.

72: LEE, Hae Ju

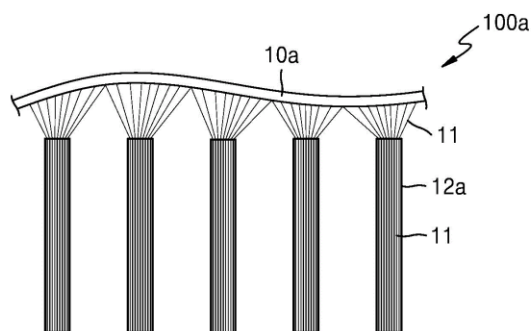
33: KR 31: 10-2018-0005513 32: 2018-01-16

54: CONTINUOUS STRAND HAVING WATER WASHABILITY AND SEPARABILITY DURING CURLING PROCESS AND COMPRISING FILAMENTS BONDED TO EACH OTHER BY THERMAL SURFACE BONDING, WET LOOK WIG USING SAME, AND METHOD FOR MANUFACTURING SAME

00: -

The present invention provides a strand which extends in one direction and comprises 30 to 8000 strands of thermoplastic polymer filaments including an amorphous organic polymer, a semi-crystalline organic polymer, or an alloy thereof, wherein each of the filaments has a fineness of 10 to 100 denier and the filaments are bonded to each other by melt-

surface adhesion, and a method for manufacturing the same. The present invention provides a weft using the strand, a wet look wig using the same, and a method for manufacturing the wig. The use of the strand allows filaments to be bonded to each other through thermal surface bonding by using thermal characteristics of the filaments even without using a conventional water-soluble adhesive (binder), so that a wet look wig washable with water even when worn by a user can be manufactured by a simple and economical method.



21: 2020/04568. 22: 2020/07/23. 43: 2021/06/23
51: H04W

71: Sony Corporation

72: AIO, Kosuke, TANAKA, Yusuke, HIRATA, Ryuichi

33: JP 31: 2018-015401 32: 2018-01-31

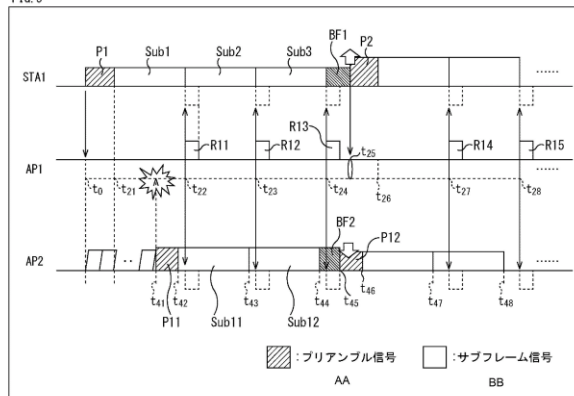
54: TRANSMISSION DEVICE, TRANSMISSION METHOD, RECEIVING DEVICE, RECEIVING METHOD, AND COMMUNICATION SYSTEM

00: -

The present disclosure relates to a transmission device, a transmission method, a receiving device, a receiving method, and a communication system that can achieve stable communication in response to fluctuations in a communication environment in a WLAN (Wireless LAN, WaveLAN). When the transmission device transmits a data signal to the receiving device, the receiving device returns, to the transmission device, a response signal which includes a feedback parameter (FP). If, on the basis of the FP, the reception status of the receiving device is poor and needs to be improved, the transmission device adjusts the transmission power or the like to improve the reception status of the

receiving device. The present invention is applicable to a communication system in a WLAN.

FIG. 5



AA Preamble signal
BB Sub-frame signal

21: 2020/04569. 22: 2020/07/23. 43: 2021/06/23
51: A01G

71: Jiangsu Vocational College of Agriculture and Forestry

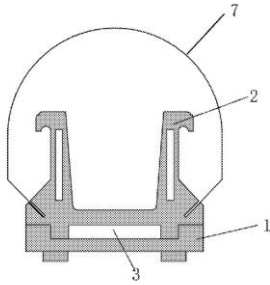
72: WANG, Quanzhi, PENG, Xin, YAN, Zhiming, SUN, Pengpeng, CAI, Shanya, LIU, Yeqiong, FENG, Yingna, QI, Jiaheng, CUI, Zhifang, TANG, Piao

33: CN 31: 201810532582.6 32: 2018-05-29

54: ENERGY-SAVING AND TEMPERATURE-INCREASING STRAWBERRY ELEVATED SUBSTRATE CULTIVATION DEVICE

00: -

Disclosed is an energy-saving and temperature-increasing strawberry elevated substrate cultivation device, comprising a groove seat, an inner cultivation groove disposed on the groove seat, and a drain channel located between the groove seat and the inner cultivation groove. The inner cultivation groove comprises a groove wall and a groove bottom; the groove wall is provided at both sides of the groove bottom; a space for accommodating a cultivation medium is formed between the groove wall and the groove bottom; the groove bottom is provided with several first drain holes for draining; the groove seat is provided with several second drain holes for draining. According to the present invention, a drain channel is provided between an inner cultivation groove and a base, which solves the water-gas contradiction of the cultivation substrate, increases the insulating performance of a cultivation groove, and solves the problems of the difficulty of insulating covering of a large greenhouse and high heating energy consumption costs.



21: 2020/04587. 22: 2020/07/24. 43: 2021/06/23
51: B62D

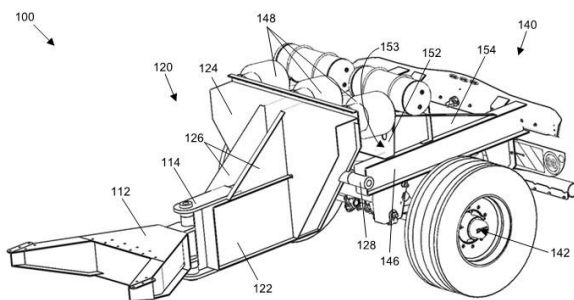
71: ROUTE HOLDINGS (PTY) LTD

72: BURGER, Marco

54: AUXILIARY TRAILER

00: -

An auxiliary trailer is disclosed having a front body section and a rear body section. The front body section has a coupler arranged to be hitched to a hitch of a main vehicle, with the connection of the coupler and hitch inhibiting vertical movement of the front body relative to the main vehicle. The rear body section has at least one axle, and is articulately connected to the front body section about a hinge connection with a pivot axis substantially parallel to the axle(s). Either or both of the front and rear body sections includes at least one linear actuator arranged to exert a variable force on the other of the front or rear body sections to thereby induce a variable torque about the pivot axis. This urges the axle(s) toward a ground surface. A force vector of the variable pushing force is offset from the at least one axle.



21: 2020/04597. 22: 2020/07/24. 43: 2021/06/03
51: B66C

71: Cabin Air Group B.V.

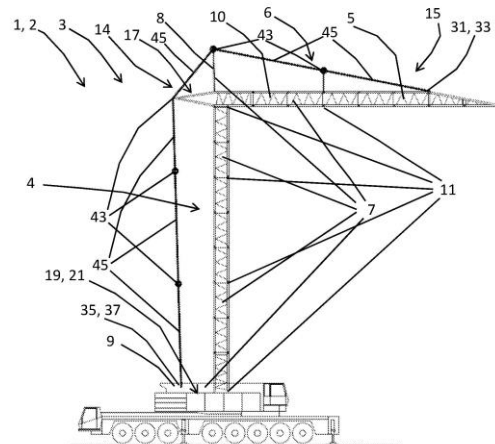
72: VAN DER SCHUIT, Rinze Jan

33: NL 31: 2020319 32: 2018-01-25

54: EXPANDABLE HEAVY EQUIPMENT, ELONGATED PULL ELEMENT, AND USE OF EXPANDABLE HEAVY EQUIPMENT

00: -

Expandable heavy equipment (1), comprising a first frame element (5), a connector (11), at least one elongated pull element (14), and further frame elements (7). The pull element (14) is connected to the first frame element (5) with a first coupler (31) and to one (9) of the further frame elements (7) with a second coupler (35). The pull element (14) is in a folded state in a transport condition and in an extended state in a working condition. The pull element (14) comprises load bearing fibres (141) extending from the first coupler (31) to the second coupler (35). The pull element (14) comprises at least one flexible part (43) and at least two stiff parts (45). The flexible part (43) has a lower bending stiffness than the two stiff parts (45) and enables the pull element (14) to be arranged in the folded state.



21: 2020/04633. 22: 2020/07/27. 43: 2021/06/28
51: A01M

71: Jiangsu Vocational College of Agriculture and Forestry

72: WANG, Shanfeng, XU, Xiaozhou, CHENG, Zhijun, XING, Jun

33: CN 31: 201810522086.2 32: 2018-05-28

54: WINDOW-TYPE FLY CATCHER

00: -

Disclosed is a window-type fly catcher, comprising a main frame (1) and an outer frame (2), which is arranged on an outer side of the main frame (1) and has a shape matching the shape of the main frame (1). A rotating curtain (4) capable of moving up and down relative to the main frame (1) through a

rotating mechanism (3) covers the main frame (1), and the rotating curtain (4) is provided with a fly catching assembly capable of attracting and catching flies; and the main frame (1) is further provided with a collector (5) for collecting the flies, and the attracted flies can be delivered into the collector (5) through the movement of the rotating curtain (4), wherein the rotating mechanism (3) is driven by a drive device.

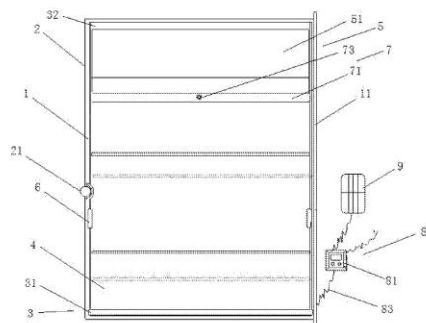


图 1

21: 2020/04652. 22: 2020/07/28. 43: 2021/06/28
51: G06F

71: International Business Machines Corporation
72: YOUNG, Richard A., GRITZMAN, Ashley D., KURIEN, Toby, KHAN, Naweed Aghmad, AKHALWAYA, Ismail Yunus

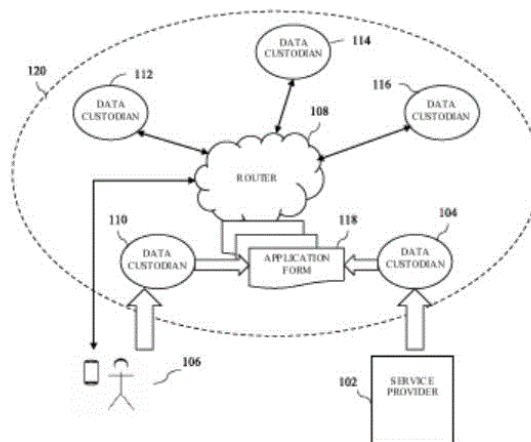
33: US 31: 16/524,991 32: 2019-07-29

54: AUTOMATIC FORM COMPLETION FROM A SET OF FEDERATED DATA PROVIDERS

00: -

One or more application forms can be hosted, which application forms are received from a service provider, the service provider having been authenticated by at least one data custodian of a set of data custodians. One or more application forms include at least form fields to be populated with information. A user selection of an application form to be automatically populated can be received, the user having been authenticated by at least one data custodian of the set of data custodians. Data request is sent to at least one data custodian of the set of data custodians for automatically populating at least some of the form fields. Received data from said at least one data custodian can be collated and used to populate one or more form fields. The populated form fields can be returned to the service provider,

for instance, provided a minimum requirement is met.



21: 2020/04670. 22: 2020/07/29. 43: 2021/06/28
51: E03D

71: DANIEL, Brian Errol

72: DANIEL, Brian Errol

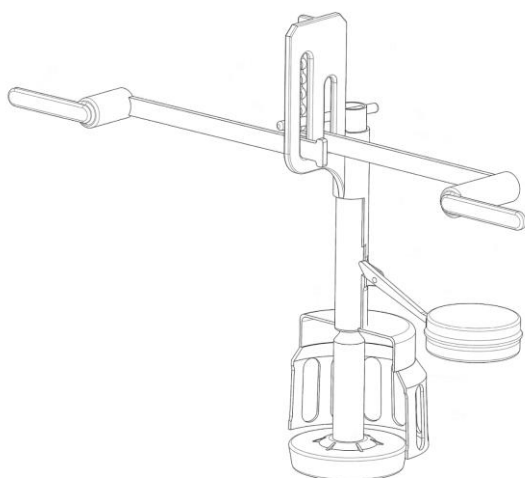
33: ZA 31: 2019/05388 32: 2019-08-15

54: FLUSH VALVE FOR A CISTERN

00: -

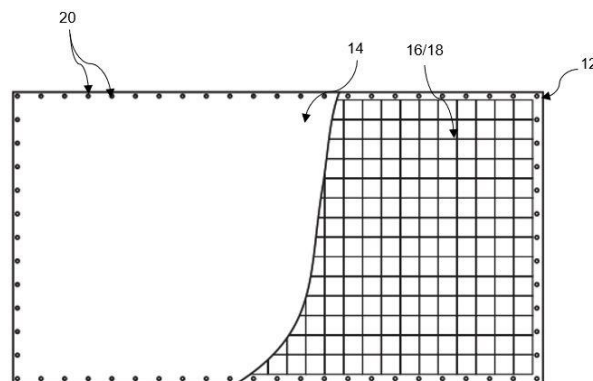
A flush valve for a cistern that defines a chamber and an outlet, includes: (i) a bung for closing the outlet of the cistern; (ii) a trap for operatively trapping air; (iii) a stem having: a first axial end at or near which the bung is connected; an opposing second axial end; and a retaining formation disposed between the first and second axial ends; in use, the stem is movable between: (a) a closed condition, wherein the bung is seated within the outlet, thereby to close the outlet and consequently inhibit the flow of liquid therethrough; (b) a first flushing condition, wherein the bung is spaced from the outlet by a first distance, thereby to enable a first volume of liquid to discharge through the outlet, the bung in the first flushing condition being at least partially received within the trap consequentially enabling the bung to float on the liquid within the trap, with the bung operatively returning towards the closed condition as liquid is discharged from the chamber; and (c) a second flushing condition, wherein the bung is spaced from the outlet by a second distance, thereby to enable a second volume of liquid to discharge through the outlet, the second distance and volume being less than the first distance and volume respectively; and (iv) a catch that is, in use, movable between: (a) an engaged condition

wherein, with the stem in the second flushing condition, the catch is at least partially captured within the retaining formation on the stem, thereby to inhibit movement of the stem and consequentially the bung towards the closed condition; and (b) a disengaged condition, wherein the catch is not captured within the retaining formation, thereby to enable movement of the stem and consequentially the bung towards the closed condition, wherein, the catch is movable from the engaged condition to the disengaged condition when the liquid in the chamber drops below a predetermined level.



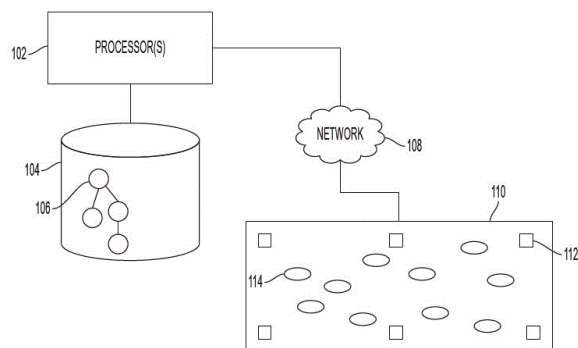
21: 2020/04671. 22: 2020/07/29. 43: 2021/06/28
51: B60J; D02G
71: CHINYANGA, Bruce
72: CHINYANGA, Bruce
54: TARPAULIN
00: -

A tarpaulin comprising a layered sheet material suitable for use in minimizing theft of objects covered by said tarpaulin, the layered sheet material being characterized in comprising at least three layers: a first layer, apt to, in use, come in contact with or directly cover goods protected by the tarpaulin; a second layer, apt to, in use, come in contact the elements; and a reinforcement layer between the first- and second layers; increasing strength of the tarpaulin and reducing chances of theft of goods covered by the tarpaulin.



21: 2020/04673. 22: 2020/07/29. 43: 2021/06/28
51: A01K; G06F; G06Q
71: International Business Machines Corporation
72: GRITZMAN, Ashley D., KURIEN, Toby, WELDEMARIAM, Komminist, MAPIYE, Darlington Shingirirai
33: US 31: 16/540,211 32: 2019-08-14
54: DETECTION AND MANAGEMENT OF DISEASE OUTBREAKS IN LIVESTOCK USING HEALTH GRAPH NETWORKS

00: -
Sensor data captured over time and associated with a plurality of livestock animals can be analyzed to determine health conditions associated with a plurality of livestock animals and to determine interactions of the livestock animals. The interactions specify at least distances between the livestock animals, duration of the distances, and frequency of the interactions. A health graph network is constructed, which includes nodes and edges, a node in the nodes representing a livestock animal and specifying at least a health condition of the represented livestock animal, an edge connecting at least two of the nodes and representing an interaction between at least two animals represented by said at least two of the nodes. Based on the health graph network, a potential outbreak among a subgroup of the livestock animals can be predicted.



21: 2020/04674. 22: 2020/07/29. 43: 2021/06/28

51: B65D

71: TEQAL (PTY) LTD

72: KIRKHAM, Sean

33: ZA 31: 2019/05450 32: 2019-08-19

54: A CONTAINER

00: -

A container is disclosed. The container has a body, a lid and a separator. The body defines an internal volume and the lid is configured to close off an open end of the body. The separator is configured to engage an interior surface of the lid and to engage an interior surface of the body. The separator and the lid are complementally shaped and dimensioned such that, when attached to the lid, and with the lid in a closed position, the separator divides the internal volume into an insert compartment and a product compartment. The body and the separator are complementally shaped and dimensioned such that, when the lid is subsequently displaced into an open position, the separator disengages the lid and is retained in the body, thereby exposing the insert compartment while the product compartment remains concealed.



21: 2020/04681. 22: 29/07/2020. 43: 2021/06/29

51: A61K; C07K

71: MACROGENICS, INC.

72: Ezio BONVINI, Ling HUANG, Chia-Ying, Kao LAM, Gurunadh, Reddy CHICHILI, Ralph, Froman ALDERSON, Paul, A. MOORE, Leslie, S. JOHNSON

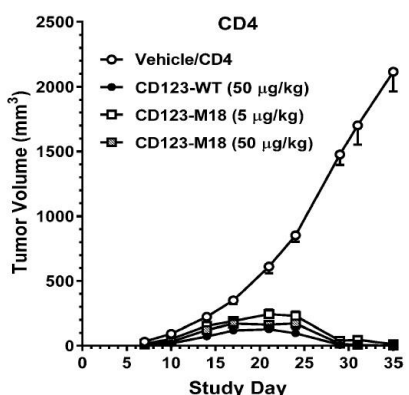
33: US 31: 62/631,043 32: 2018-02-15

33: US 31: 62/738,632 32: 2018-09-28

54: VARIANT CD3-BINDING DOMAINS AND THEIR USE IN COMBINATION THERAPIES FOR THE TREATMENT OF DISEASE

00: -

The present invention is directed to DA x CD3 Binding Molecules comprising a vCD3- Binding Domain, which comprises a CDRH1 Domain, a CDRH2 Domain, a CDRH3 Domain, a CDRL1 Domain, a CDRL2 Domain, and a CDRL3 Domain, at least one of which differs in amino acid sequence from the amino acid sequence of the corresponding CDR of a rCD3- Binding Domain, wherein the DA x CD3 Binding Molecule comprising such vCD3- Binding Domain exhibits an altered affinity for CD3, relative to a DA x CD3 Binding Molecule comprising such rCD3-Binding Domain. The invention particularly concerns to such DA x CD3 Binding Molecules comprising a vCD3-Binding Domain which exhibit reduced affinity for CD3 and are capable of mediating redirected killing of target cells expressing a DA and exhibit lower levels of cytokine release relative to a DA x CD3 Binding Molecule comprising a rCD3-Binding Domain. The invention particularly concerns the use of DA x CD3 Binding Molecules comprising a vCD3 -Binding Domain in the treatment of cancer and pathogen-associated diseases. The present invention is also directed to pharmaceutical compositions that comprise such molecule(s).

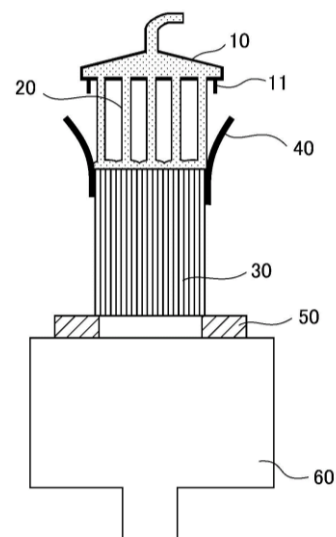


21: 2020/04684. 22: 2020/07/29. 43: 2021/06/28
 51: B01D; B01J; B05B; B05D
 71: Cataler Corporation
 72: KIDO, Yuki, MATSUI, Suguru, OHARA, Etsuko,
 NAKADA, Kazuma
 33: JP 31: 2018-237626 32: 2018-12-19

54: MANUFACTURING METHOD FOR EXHAUST GAS PURIFICATION DEVICE

00: -

The present invention pertains to a manufacturing method for an exhaust gas purification device that includes providing a solution containing a catalytic metal from a shower nozzle to the upper portion of a honeycomb substrate, coating the honeycomb substrate with the solution, and firing the honeycomb substrate coated with the solution, wherein the shower nozzle has a plurality of discharge openings to discharge the solution and a guard that encloses the plurality of discharge openings.



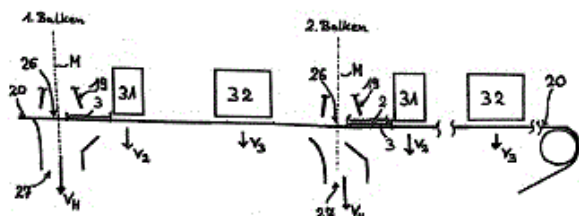
21: 2020/04716. 22: 2020/07/30. 43: 2021/06/28
 51: B32B
 71: REIFENHÄUSER GMBH & CO. KG
 MASCHINENFABRIK
 72: WAGNER, TOBIAS, SOMMER, SEBASTIAN,
 BOHL, PATRICK, RÖSNER, ANDREAS, GEUS,
 HANS-GEORG, LINKE, GEROLD, KUNZE, BERND
 33: EP 31: 19 189 238.9 32: 2019-07-30

54: SPUNBOND LAMINATE AND METHOD OF MAKING SAME

00: -

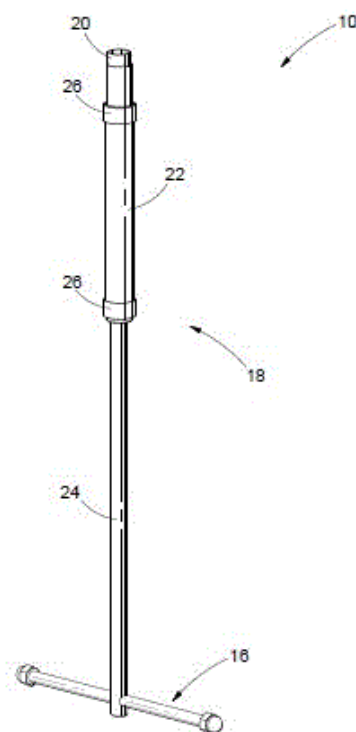
A spunbond nonwoven laminate has a plurality of spunbond nonwoven layers one atop the other, at least two of the spunbond nonwoven layers having crimped continuous filaments. A first spunbond nonwoven layer having crimped multicomponent filaments or bicomponent filaments is formed by at least one first component on the outer surface of the filaments of the first layer consisting or substantially consisting of at least one polyolefin. At a second component of the filaments of the first layer consisting or substantially consisting of a plastic having a higher melting point than the polyolefin of the first component of the filaments of the first layer. The spunbond nonwoven laminate has a second outermost spunbond nonwoven layer with multicomponent filaments or bicomponent filaments as a cover layer and formed by at least one first component made of at least one polyolefin on the outer surface of the filaments of the second layer. At least one further or a second component of the filaments of the second layer consisting or substantially consisting of a plastic has a higher

melting point than the polyolefin of the first component of the filaments of the second layer. The polyolefin portion of the first component of the filaments of the second layer is greater than the polyolefin portion of the first component of the filaments of the first layer.



21: 2020/04755. 22: 2020/07/31. 43: 2021/06/30
 51: B25B; B60C
 71: STEENKAMP, Wilhelmine Ida, MINTY, Nicolette
 72: STEENKAMP, Theunis Gert, MINTY, Andrew John Richard
 33: ZA 31: 2019/06185 32: 2019-09-19
54: AIR VALVE TOOL
 00: -

This invention relates to a tool 10 for replacing an air valve extension 12. The tool 10 comprises a handle 16 for holding and operating the tool 10, a stem 18 that is operatively attached to the handle 16 so to extend therefrom, and a socket 20 that is adapted to engage the air valve extension 12 so to prevent relative rotational movement between the respective components 12, 20.



21: 2020/04756. 22: 2020/07/31. 43: 2021/06/30
 51: B29K; C08L; G01F; H01B
 71: ANHUI SURXIN WIRE & CABLE CO., LTD., CHIZHOU UNIVERSITY
 72: HUANG, Zhiliang, ZHANG, Jun, WANG, Lei, TIAN, Xiao, ZHU, Mingche
 33: CN 31: 202010440127.0 32: 2020-05-22
54: TPU-BASED COMPOSITE MATERIAL FOR LIQUID LEVEL SENSOR CABLES AND PREPARATION METHOD THEREOF
 00: -

The present invention relates to the technical field of processing of thermoplastic polyurethane (TPU)-based composite materials for cables, and in particular to a TPU-based composite material for liquid level sensor cables and a preparation method thereof. The TPU-based composite material for cables of the present invention includes the following raw materials in percent by weight: TPU: 70%-85%, EVA: 5%-10%, HDPE: 5%-15%, lubricant: 1%-5%, antioxidant: 0.5%-1%, hydrolysis stabilizer: 1%-5%. The TPU-based composite material for cables of the present invention has relatively strong resistance to water and solvents. It is stable during immersion in various solvents showing stable tensile strength, tensile stress at 300% elongation and elongation at break. It can be used to prepare liquid level sensor

cable sheaths to extend the service life of the liquid level sensor and increase the accuracy of measurement.

21: 2020/04761. 22: 2020/07/31. 43: 2021/06/28

51: C23F

71: CATHTECT ENGINEERING (PTY) LTD.

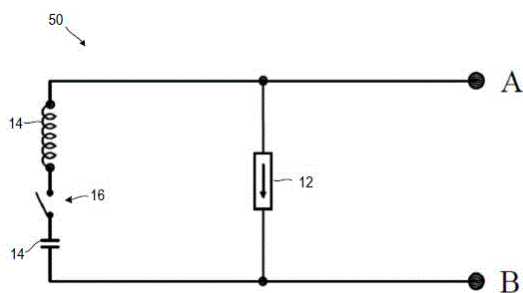
72: RAATH, David John

33: US 31: 62/884,425 32: 2019-08-08

54: A SAFETY SYSTEM AND METHOD FOR DE-COUPPLING OF A CATHODICALLY PROTECTED STRUCTURE

00: -

The present disclosure is for a safety system for de-coupling of a cathodically protected structure. The safety system comprises both a DC (Direct Current) component, connected or connectable between the structure and ground, and an AC (Alternating Current) component, connected or connectable between the structure and ground and connected in parallel with the DC component. The safety system also comprises a switch connected in series with the AC component, the switch configured selectively to disconnect the AC component between the structure and ground while permitting the DC component to remain connected between structure and ground.



21: 2020/04766. 22: 2020/07/31. 43: 2021/06/30

51: G06F

71: CYBER AUTHENTICATION TECHNOLOGIES (PTY) LTD

72: HORN, CRAIG MICHAEL, MOLLENTZE, HAROLD NORMAN

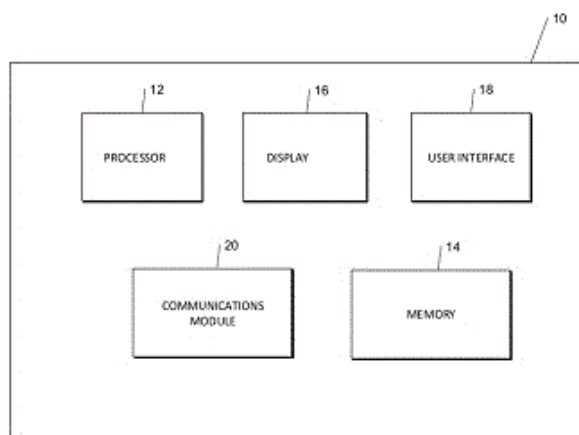
33: ZA 31: 2019/05040 32: 2019-07-31

54: A MEMORY MANAGEMENT SYSTEM AND METHOD

00: -

A memory management system and method includes creating a secure workspace in a memory by launching a signed application that then calls one or more kernel drivers that control and monitor file

systems and that take over control of one or more input and output devices and systems from a resident operating system. A portion of memory is reserved to be a secure memory area to be available to the secure workspace. Next, an encrypted file is processed into the secure memory area and an on demand key is generated inside the secure memory area. The encrypted file is then decrypted in the secure memory area using the generated key and from the decrypted file a data file structure and data set is extracted that is protected within the secure memory area.



21: 2020/04768. 22: 31/07/2020. 43: 2021/06/30

51: A61K; C07D; A61P

71: RECORDATI INDUSTRIA CHIMICA E FARMACEUTICA S.P.A.

72: GRAZIANI, Davide, RIVA, Carlo, MENEGON, Sergio, TAZZARI, Valerio

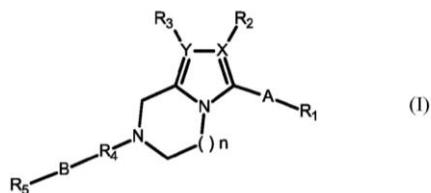
33: US 31: 62/622,379 32: 2018-01-26

54: TRIAZOLE, IMIDAZOLE AND PYRROLE CONDENSED PIPERAZINE DERIVATIVES AND THEIR USE AS MODULATORS OF MGLU5 RECEPTORS

00: -

Disclosed are triazole, imidazole and pyrrole condensed piperazine derivatives and their use as allosteric modulators of mGlu5 receptor activity, pharmaceutical compositions comprising such compounds, and methods of treatment therewith. Compounds of the invention can be used for the treatment and/or prevention of neurological and psychiatric disorders associated with glutamate dysfunction such as schizophrenia or cognitive decline, dementia or cognitive impairment, or other pathologies that can be related either directly or

indirectly to glutamate dysfunction, i.e., disorders treatable by positive allosteric modulation (PAM) or by negative allosteric modulation (NAM) of mGluR5.



21: 2020/04781. 22: 31/07/2020. 43: 2021/06/30

51: G21D

71: FRAMATOME

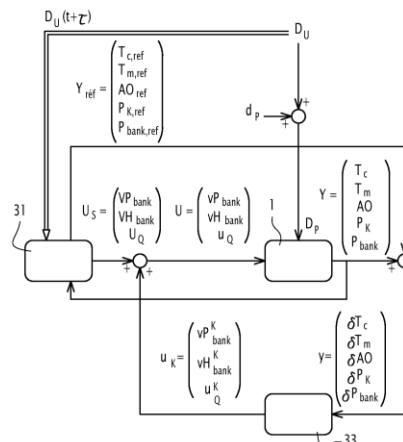
72: GROSSETETE, Alain, LEMAZURIER, Lori, CHEVREL, Philippe, YAGOUBI, Mohamed

33: FR 31: 1850867 32: 2018-02-01

54: METHOD FOR REGULATING OPERATING PARAMETERS OF A NUCLEAR REACTOR AND CORRESPONDING NUCLEAR REACTOR

00: -

The method of the invention regulates operating parameters comprising at least the average core temperature (T_m) and the axial offset (AO), the method comprising the following steps: - generating a vector (U_s) of values of nuclear-reactor commands with a supervisor (31) that implements a predictive control algorithm; - generating a vector (u_K) of corrective values for correcting the nuclear-reactor commands with a regulator (33) that implements a gain-scheduling control algorithm; - generating a vector (U) of corrected values of the nuclear-reactor commands, using the vector (U_s) of the values of the commands, i.e. the vector generated by the supervisor (31), and the vector (u_K) of the corrective values for correcting the commands, i.e. the vector generated by the regulator (33); - regulating the operating parameters of the nuclear reactor, by controlling actuators using the vector (U) of the corrected values of the commands.



21: 2020/04799. 22: 2020/08/03. 43: 2021/06/30

51: A99Z

71: BEUKES, Christopher John

72: BEUKES, Christopher John

33: ZA 31: 2019/05561 32: 2019-08-23

54: METHOD OF MEASURING A SKILL

00: -

This invention relates to a method of measuring a skill and more specifically, but not exclusively, to a method of measuring a career skill of a user. The method of measuring a skill of a user comprises providing a schematic representation of a plurality of skills; selecting a skill from the schematic representation; assessing the user's current level of knowledge of the selected skill; assessing the user's current level of importance they place on the selected skill; assessing the user's current level of experience they have on the selected skill; calculating a score for each of the three criteria; proposing one or more actions for any of the three criteria which score below a predefined threshold; and assigning a competency badge once the total score of the three criteria is above a predefined threshold.

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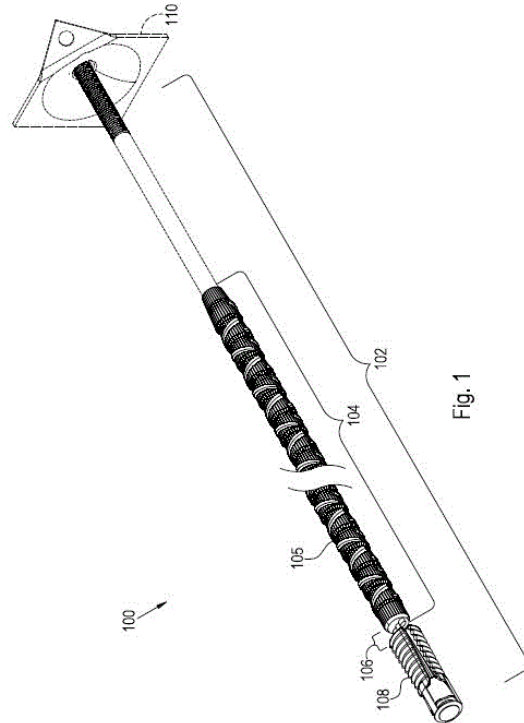
16

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17

19 21

21 18



21: 2020/04800. 22: 2020/08/03. 43: 2021/06/28
51: E21D

71: ROCBOLT TECHNOLOGIES (PTY) LTD.

72: BELLINGHAM, Werner Cornelius

33: ZA 31: 2020/00321 32: 2020-01-17

54: A YIELDING WALL BOLT

00: -

A yielding wall bolt for use in mining is configured to be inserted into, and engage, a hole provided in a mine wall. The wall bolt includes a bolt shaft having a head end and a base end, a polymeric coating or layer provided on at least part of the bolt shaft, a deformable expansion shell provided at the head end, and a region of weakness provided at the head end inwardly of the expansion shell. The deformable expansion shell is configured to deform or separate at a pre-tension load, thereby to engage the yielding wall bolt with the mine wall within the hole. The region of weakness is configured to yield at a yield load which is above the pre-tension load but below a sheer load at which the bolt shaft would sheer free from the polymeric coating and the expansion shell.

21: 2020/04816. 22: 2020/08/04. 43: 2021/06/28
51: A22C; B26D

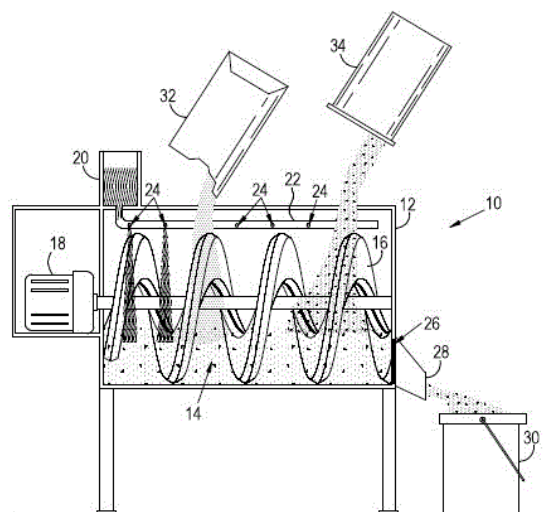
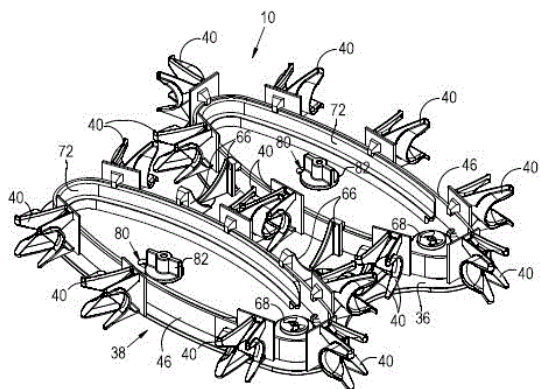
71: FREDDY HIRSCH GROUP PROPRIETARY LIMITED

72: LIEBENBERG, Henning

54: A SAUSAGE CUTTING APPARATUS

00: -

A sausage cutting apparatus 10 comprises a plastics base plate 36 defining a flat support base for a sausage rope to be cut, first and second cutting assemblies 38,42 including a number of cutting devices 40, a drive system for displacing the cutting devices and a guide rails 72 for guiding the displacement. The cutting assemblies 38, 42 are located at opposite sides of a feed path for the sausage rope and each includes a continuous flexible toothed belt 46 to which the cutting devices 40 are connected. The carrier belts 46 are mounted on the guide rails. The guide rails project upwardly from the support base and include arcuate guide surfaces along which the carrier belts are slidingly displaced, defining sequentially convergent and divergent cutter paths along which associated cutting devices are displaced inwardly for severing the sausage rope and thereafter away from one another for releasing severed sausage portions.



21: 2020/04845. 22: 2020/08/05. 43: 2021/06/28
 51: C04B; E04C
 71: DEPARTMENT OF ENVIRONMENT,
 FORESTRY AND FISHERIES, GOVERNMENT OF
 THE REPUBLIC OF SOUTH AFRICA
 72: OOSTHUIZEN, Dirk Marais, LORD, Andrew
 Hyde, LAMB, Stephen Bryce, NDUNA, Grabeth,
 THELINGOANA, Mojalefa David
 33: ZA 31: 2019/05387 32: 2019-08-15
**54: METHOD OF MANUFACTURING A BUILDING
 MATERIAL AND A CONSTRUCTION MEMBER
 THEREFROM**

00: -

A method of producing a building material includes providing a binder composition consisting of a mixture of cement, coal fly ash, lime and a hydrophilic filler agent and providing a biomass aggregate comprising wood chips. The binder composition is pre-mixed with water in a mixing container. Thereafter, the wood chips are added to the pre-mixed water and the binder composition and mixed into the water/binder composition pre-mixture. The binder composition comprises a blend of 49.8% by weight Portland cement, 37% by weight class S coal fly ash, 12.4% by weight building and plaster lime and 0.4% by weight of a co-polymer of vinyl acetate and ethylene. The building material mixture is cast in a mould or in formwork defining a structure to be constructed. Mixing of the building material in the mixing chamber and casting thereof in a mould or formwork takes place within a period of no more than two and a half minutes after first wetting of the biomass aggregate.

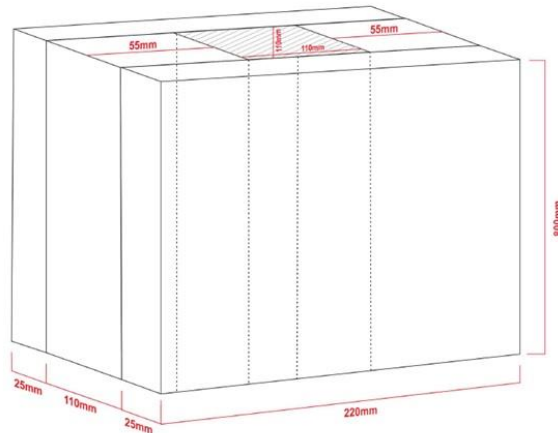
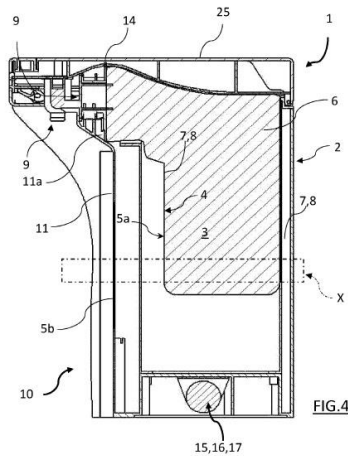
21: 2020/04861. 22: 2020/08/05. 43: 2021/06/28
 51: A61K; A61P; C07K; C12N
 71: Beijing Kawin Technology Share-Holding Co.,
 Ltd.
 72: XU, Zheng, LI, Xiang, SONG, Rui
54: IL-4Ra ANTIBODY AND USE THEREOF
 00: -

The present invention belongs to the technical field of antibodies. Provided are an antibody specifically binding to human interleukin-4 receptor (hIL-4R) or an antigen-binding fragment thereof, a pharmaceutical composition comprising the antibody or antigen-binding fragment, and a use thereof. Further, the present invention also provides a nucleic acid molecule encoding the antibody, a vector and host cell comprising the nucleic acid molecule, and a method for preparing the antibody.

21: 2020/04869. 22: 05/08/2020. 43: 2021/07/16
 51: B67D
 71: BEEXLAB S.R.L.
 72: Diego PEPINI
 33: IT 31: 102018000002421 32: 2018-02-05
54: FLUID DISPENSER
 00: -

A fluid dispenser (1) comprises a containing case (2) having an inner containment cavity (3) for containing a first fluid (6) to be dispensed, which is delimited by at least one pair of walls (4, 5a) which have a membrane-like structure, at least one first wall (4) of which is placed in contact with the fluid (6) to be dispensed, a second wall (5a) of said pair at least partly surrounding the first wall (4). The dispenser (1)

further comprises a closable hollow space (7), positioned between the first wall (4) and the second wall (5a); and a second fluid (8) which, introduced in the hollow space (7) and interacting with the first wall (4), imparts to the fluid (6) to be dispensed a movement towards an outlet (9) of the case (2) and a simultaneous action at least of expelling to the outside of the case (2) the gases present in the containment cavity (3).



21: 2020/04874. 22: 2020/08/06. 43: 2021/06/28
51: E02B; E02F

71: SIZISA UKHANYO 319 CC

72: RADLEY, Mechiel Johannes, VAN DER MERWE, Johannes Michiel

33: ZA 31: 2019/05560 32: 2019-08-23

**54: DEVICE AND METHOD FOR
SUBTERRANEAN DRAINAGE INSTALLATION**
00: -

THIS invention relates to a device for subterranean drainage installation, specifically to a purpose-built or retrofit granular filter material dispensing device for a drainpipe installation plough (also known as a tile plough). The granular filter material dispensing device for or built into a drainpipe installing plough including a blade, a hopper, a material chute for feeding granular filter material from the hopper and out of a material outlet. The material hopper is operably located: above a drainpipe outlet of a drainpipe-depositing implement of the plough; and relative to leading and trailing ends of the blade body, rearward of such drainpipe outlet of the drainpipe-depositing implement. The granular filter material dispensing device further includes a pair of guide formations at or near the lower end of the blade body for guiding granular filter material operably dispensing from the material outlet of the material chute directly over a drainpipe exiting the drainpipe outlet, the guide formations extending: from the drainpipe outlet rearwards toward the trailing end of the blade body; and from the material outlet of the material chute downwards to terminate at or near the diametric centre of the drainpipe outlet. The invention further extends to a method for subterranean drainage installation.

21: 2020/04873. 22: 2020/08/06. 43: 2021/07/16
51: E01F; E04H; G09F

71: Sapphire Corporate Solutions (Pty) Ltd

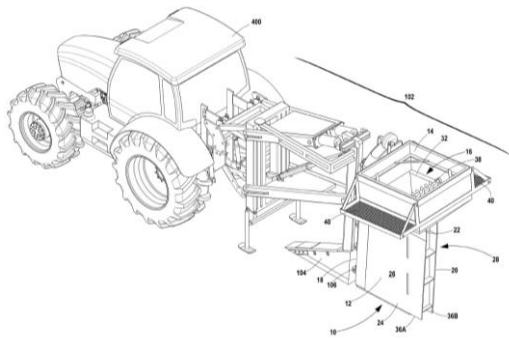
72: Sean WILLIAMS

33: ZA 31: 2019/05386 32: 2019-08-15

54: BARRIER ARRANGEMENT

00: -

The invention discloses a barrier arrangement, which includes a foam member adapted to cover at least one bollard and/or ground pole and/or forecourt crash barriers. The arrangement is adapted to cover two or more bollards and/or ground poles and/or forecourt crash barriers. The arrangement is adapted to create a wall structure. The wall structure is adapted to act as guiding means for people, pedestrians, cyclists, motorcyclists and/or vehicles.



21: 2020/04875. 22: 2020/08/06. 43: 2021/06/28

51: E05B; E05G; F16B; F16L

71: DFR Engineers Eastern Cape (Pty) Ltd

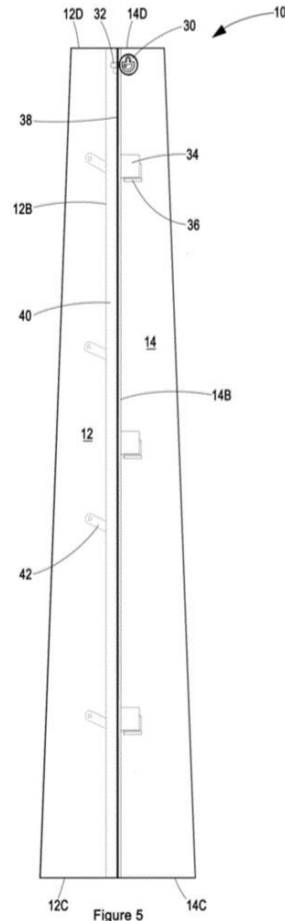
72: BRAND, Louw, ROODT, Deon

33: ZA 31: 2019/05478 32: 2019-08-20

54: A GUARD

00: -

THIS invention relates to a guard. More specifically, the invention relates to guards for streetlight poles and the like, particularly those manufactured from fibreglass, which are prone to vandalism by thieves, who damage the poles to gain access to the copper cables inside the poles. The guard includes a pair of first and second elongate and a lock for locking the elongate shells in a closed position. The elongate shells are hingedly connected to one another at least partially at or near respective first edges, with opposing second edges moveable relative to one another about the hinge between an open position and the closed position. In the open position, the second edges are spaced apart relative to one another by between 100 millimetres and 400 millimetres millimetres for operably receiving a streetlight pole or the like therebetween. In the closed position, the second edges are brought into close proximity or abutment with one another thereby to enclose at least a portion of the streetlight pole or the like therein. The elongate shells have a height dimension of between about 1000 and 2100 millimetres.



21: 2020/04876. 22: 2020/08/06. 43: 2021/06/28

51: A41D; G08B; G08G

71: CHABANGU, Samuel Soul

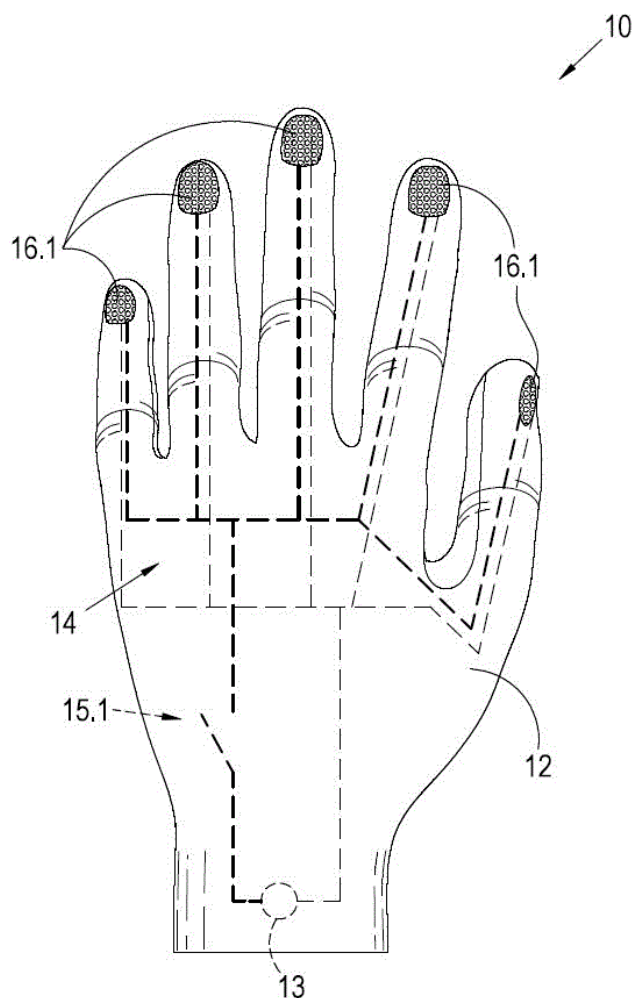
72: CHABANGU, Samuel Soul

54: A WEARABLE SIGNALLING DEVICE

00: -

This invention relates to a wearable signalling device 10 used by a pointsman to direct traffic. The signalling device 10 includes a glove 12 worn on the pointsman's hand, a battery 13, control circuitry 14 including three independent user gesture sensors in the form of miniature mechanical switches 15.1, 15.2, 15.3 which are accommodated in cavities formed in the glove 12 and are configured to sense different gestures performed by the pointsman and a plurality of visual indicators in the form of LED pairs 16.1, 16.2, 16.3 disposed toward distal ends of glove fingers. The LEDs are coupled to the battery via the control circuitry 14. Whilst the pointsman performs hand signals to direct traffic, the LED pairs automatically light up in either red or green

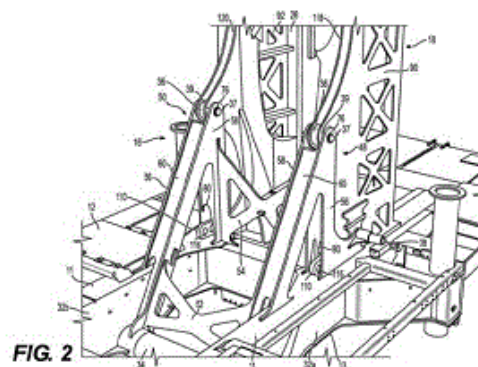
depending upon which switch 15.1, 15.2, 15.3 is closed. In this manner, the visibility of the hand signals is accentuated.



21: 2020/04878. 22: 2020/08/06. 43: 2021/06/25
51: E21B
71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC
72: HUDSON, CHARLES T
33: US 31: 16/536,844 32: 2019-08-09
54: MAST COUPLING ASSEMBLY FOR A MOBILE DRILLING MACHINE
00: -

A drilling machine is disclosed. The drilling machine may include a mast and a machine frame. The mast may include a mast frame, a movable drill head assembly, a first pivot aperture, and a plurality of first lock apertures each corresponding to a different drilling position of the mast. The machine frame may include an engine, a ground engaging assembly having an axle, and a mast coupling assembly

having at least a pair of opposed legs, each leg including at least one plate. The at least one plate of each leg may include a second pivot aperture positioned to align with the first pivot aperture to pivotably couple the mast to each leg. The at least one plate may also include a second lock aperture positioned to align with each of the first lock apertures and receive a lock pin for locking the mast in a drilling position.



21: 2020/04880. 22: 06/08/2020. 43: 2021/07/16
51: C04B; E01C
71: COFORMEX
72: BELLIARD, Patrick
33: FR 31: 1851246 32: 2018-02-14
54: COMPOSITION FOR A SPORTS SURFACE, IN PARTICULAR FOR AN EQUESTRIAN SPORT, AND METHOD FOR PRODUCING SUCH A COMPOSITION
00: -

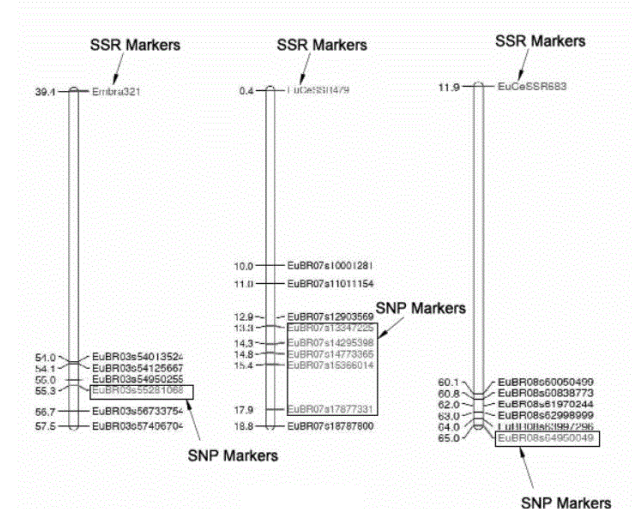
The present invention relates to a composition for the production of a sports surface, especially for equestrian sports, advantageously comprising at least 50% by mass of sand, optionally at least one filler, and at most 10% by mass of an organic coating comprising at least one flexible polymer A having a tensile modulus less than or equal to 1 MPa at room temperature, as well as a process for manufacturing such a composition.

21: 2020/04929. 22: 2020/08/07. 43: 2021/06/25
51: C12N; C12Q
71: UNIVERSITY OF PRETORIA
72: MHOSWA, Lorraine, MYBURG, Alexander Andrew, MPHABLELE, Mmoledi, NAIDOO, Sanushka
33: ZA 31: 2019/05244 32: 2019-08-08

54: DNA MARKERS LINKED TO TOLERANCE AGAINST INSECT PEST LEPTOCYBE INVASA IN EUCALYPTUS GRANDIS

00: -

The invention is directed at isolated single nucleotide polymorphism (SNP) markers in a Eucalyptus species, the presence of one or more of the SNP markers being associated with tolerance or resistance to Leptocybe invasa.



21: 2020/04930. 22: 2020/08/11. 43: 2021/06/09

51: G02B

71: Hefei University of Technology

72: Li Wang, Huanhuan Zuo, Ming Li, Hehao Luo, Chao Xie

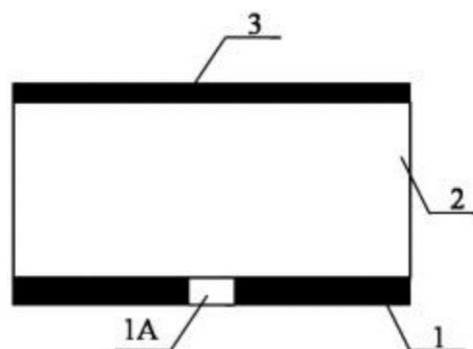
33: CN 31: 201910742815.X 32: 2019-08-13

54: A THICKNESS INDUCED NARROW-BAND INORGANIC PHOTODETECTORS BASED ON SCHOTTKY JUNCTION AND A PREPARATION METHOD THEREOF

00: -

The invention discloses a thickness induced narrow-band inorganic photodetectors based on schottky junction and a preparation method thereof, adopting an inorganic semiconductor substrate as a photosensitive layer, a bottom electrode comprising light transmission hole is provided on lower surface of the inorganic semiconductor substrate, and a top electrode in ohmic contact with the inorganic semiconductor substrate is provided on upper surface thereof. In the invention, the detection wavelength range can be adjusted by adjusting the thickness of the inorganic semiconductor substrate; and narrowband detection of different wavelengths

can be obtained by selecting semiconductor materials with different band gaps, and the antinoise ability is strong.



21: 2020/04933. 22: 2020/08/11. 43: 2021/06/25

51: E21D

71: DREAM AFRICAN FOUNDATION (PTY) LTD

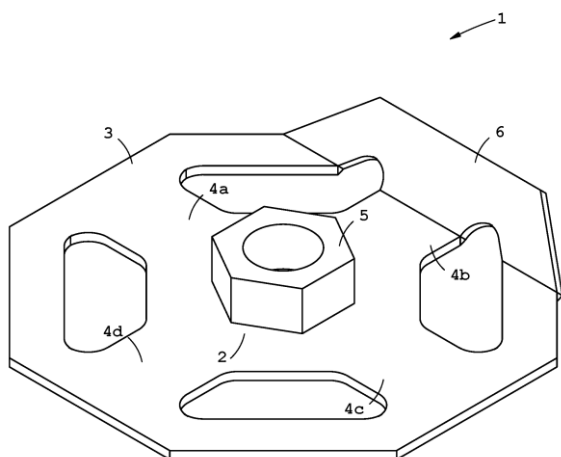
72: WESTLEY, Stephen John, MAKHETHA, Siphwe, FOURIE, Andru Smartryk

33: ZA 31: 2019/02918 32: 2019-05-10

54: APPARATUS FOR SECURING A SUPPORT STRUCTURE TO A ROOF BOLT

00: -

This invention relates to an apparatus for securing a support structure to a roof bolt. In accordance with the invention there is provided an apparatus for securing a support structure to a roof bolt comprising a body with an octagonal outer portion and an octagonal inner portion; at least one support member between the octagonal outer and the octagonal inner portion; a threaded element secured to the octagonal inner portion on one side; a support structure engaging formation on the other side; and at least one protrusion extending from the octagonal outer portion for holding and fastening the apparatus to a roof bolt wherein the threaded element is engageable to a complementary thread of a roof bolt such that a support structure may be engaged by the support structure engaging formation between the roof bolt and the formation when the apparatus is fastened through the protrusion.



21: 2020/04937. 22: 2020/08/11. 43: 2021/06/25
51: B27K; C08L
71: HEARTWOOD SUSTAINABLE INDUSTRIES
(PTY) LTD

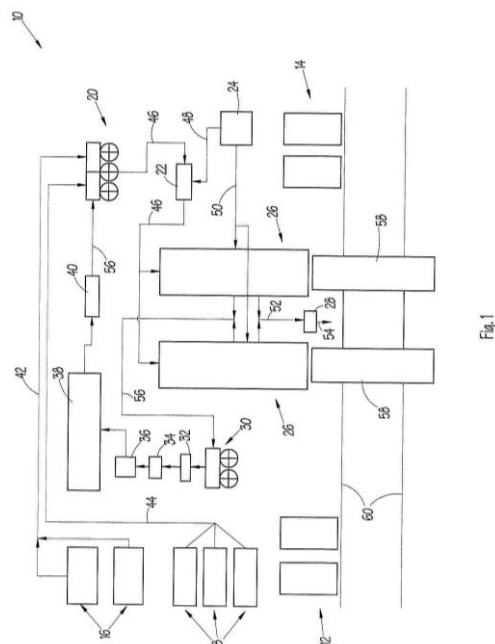
72: REDDY, Goddeti Siva Mohan, CHIUTA, Steven,
KHOZA, Teboqo, Ankie

33: US 31: 62/616,962 32: 2018-01-12

54: TREATMENT OF WOOD WITH ALDEHYDE
AND ISOCYANATE

00: -

A method of treating wood includes subjecting the wood to a vacuum environment, and thereafter contacting the wood under positive pressure with an aldehyde and an isocyanate, both the aldehyde and the isocyanate being in liquid form.



21: 2020/04946. 22: 11/08/2020. 43: 2021/06/25
51: C12P

71: SLAGER, Benjamin, COHEN, Peter, James

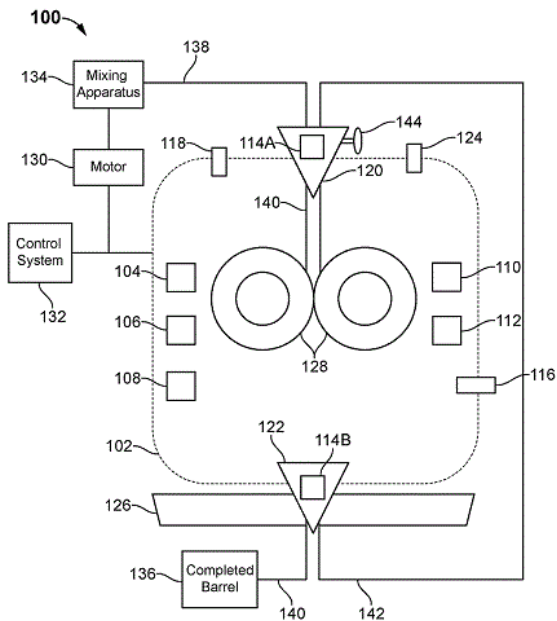
72: SLAGER, Benjamin, COHEN, Peter, James

33: US 31: 62/617,900 32: 2018-01-16

54: SYSTEM TO CONVERT CELLULOSIC MATERIALS INTO SUGAR AND METHOD OF USING THE SAME

00: -

A device for converting cellulose to sugar comprises a reactor chamber with a plurality of control components, and a control assembly. The control assembly is operatively connected to the reactor chamber, a drive assembly and control components to transmit and receive interoperability signals. The device has an inlet hopper with a detector, a crusher, an outlet hopper, a sensor assembly, a steam inlet, and a carbon dioxide inlet. The inlet hopper is configured to receive and analyze proportion data of matters in a feedstock and catalyst mixture via the detector. The crusher receives and grinds the mixture from the inlet hopper to induce chemical reaction for producing sugar. The outlet hopper is configured to determine a proportion data of matter in the grinded mixture. The control assembly is configured to determine adjustments need to be performed on the components and drive assembly to optimize the sugar production.



21: 2020/04950. 22: 2020/08/11. 43: 2021/06/25

51: B61G

71: CRRC Qiqihar Rolling Stock Co., Ltd.

72: CUI, Yingjun, JIANG, Yan, JIN, Pengdi, WANG, Yan, WANG, Changchun, MENG, Qingmin

33: CN 31: 201810700562.5 32: 2018-06-29

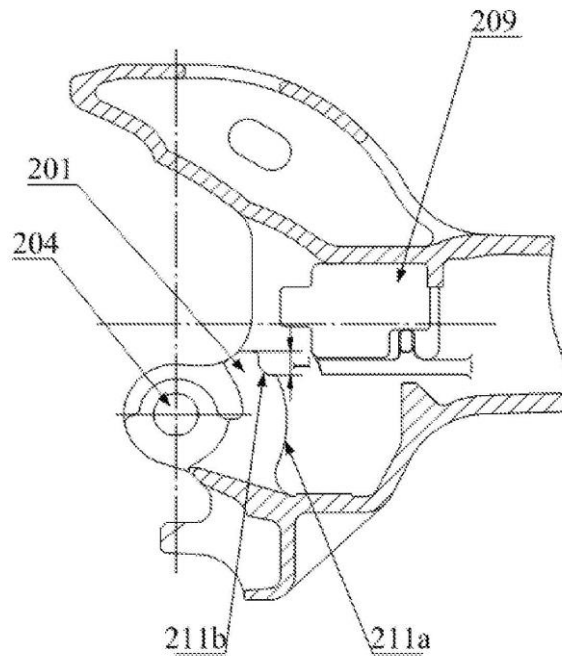
33: CN 31: 201821029251.2 32: 2018-06-29

54: RAILWAY VEHICLE, COUPLER, AND COUPLER BODY THEREOF

00: -

A railway vehicle, a coupler, and a coupler body thereof. The coupler body comprises an upper traction platform (201), a lower traction platform (205), a lock chamber (209), and a pin hole (204), the traction surface of the upper traction platform (201) and/or the lower traction platform (205) being divided into a contact area (211a) and a yielding area (211b) along the direction approaching the lock chamber (209), an extension face of the end of the contact area (211a) next to the lock chamber (209) being an M2 face, and the yielding area (211b) being positioned at the side of the M2 face next to the pin hole (204). The yielding area (211b) is positioned on the side of the contact area (211a) next to the lock chamber (209) and there is a gap and no contact between the yielding area (211b) and a traction platform of a coupler knuckle, thus increasing the distance of the upper traction platform (201) and/or lower traction platform (205) of the coupler body and the edge of the contact area of the traction platform

of the coupler knuckle to the lock chamber (209), such that the distance of the mating contact bearing position of the coupler body and the coupler knuckle to the lock chamber (209) and the lock surface is increased, and the mating contact bearing position of the coupler body and the coupler knuckle is far away from the structural mutation area, thereby reducing the stress level of the upper and lower traction platforms of the coupler body and the coupler knuckle, avoiding the problem of the premature breakage of the traction platforms of the coupler body and the coupler knuckle, extending the service life of the coupler body and the coupler knuckle, and reducing the maintenance costs of the coupler.



21: 2020/04963. 22: 2020/08/12. 43: 2021/06/25

51: H04W

71: BARNARD, JOHAN; BARNARD, RODNEY

72: BARNARD, JOHAN, BARNARD, RODNEY

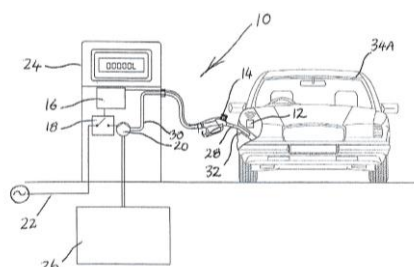
33: ZA 31: 2019/05532 32: 2019-08-22

54: A SYSTEM FOR PREVENTING THE REFUELLING OF A VEHICLE WITH THE INCORRECT FUEL TYPE

00: -

The invention provides a system for preventing the refuelling of a vehicle with an incorrect fuel type, the system including: an electronically interrogatable

device fixable to the vehicle that is encoded with first information on the fuel-type used by the vehicle; an electronically interrogating device fixable to a fuel line or a housing of a fuel pump; a processing module in communication with the electronically interrogating device, encoded with second information on the fuel-type dispensed by the fuel pump, and in communication with a switch on a power supply line to the fuel pump; wherein, when the electronically interrogating device is brought into wireless communication range of the electronically interrogatable device, the first information is read by the electronically interrogating device and communicated to the processing module; and wherein, the processing module compares the first information with the second information and, if the first information with the second information do not pertain to the same fuel-type, the processing module actuates the switch to interrupt the power supply line to the fuel pump.



21: 2020/04971. 22: 12/08/2020. 43: 2021/06/25

51: A61L; C01B

71: COLLIDION, INC.

72: ALIM, Hojabr, PRASAD, Sridhar, Govinda, DE, Surya, Kanta

33: US 31: 62/617,263 32: 2018-01-14

33: US 31: 62/721,991 32: 2018-08-23

54: COMPOSITIONS, KITS, METHODS AND USES FOR CLEANING, DISINFECTING, STERILIZING AND/OR TREATING

00: -

The present specification discloses a composition comprising, consisting essentially of, or consisting of hypochlorous acid or free available chlorine in combination with one or more quaternary compounds or silicon quaternary compounds, one or more guanide-containing compounds, one or more alcohols, one or more metallic particles, one or more metal salts, or any combination thereof. The present

specification further discloses a kit comprising, consisting essentially of, or consisting of a one or more containers including a composition disclosed herein or components which make up such compositions as well as methods and uses for such compositions and kits.

21: 2020/04972. 22: 12/08/2020. 43: 2021/06/25

51: A61K; C07D; A61P

71: ADAMED PHARMA S.A.

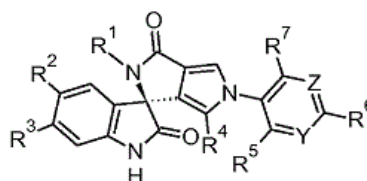
72: FEDER, Marcin, MAZUR, Maria, KALINOWSKA, Iwona, JASZCZEWSKA-ADAMCZAK, Joanna, LEWANDOWSKI, Wojciech, WITKOWSKI, Jakub, JELEN, Sabina, WOS-LATOSI, Katarzyna

33: EP 31: 18461506.0 32: 2018-01-16

54: 1,2,3',5'-TETRAHYDRO-2'H-SPIRO[INDOLE-3,1'-PYRROLO[3,4-C]PYRROLE]-2,3'-DIONE COMPOUNDS AS THERAPEUTIC AGENTS ACTIVATING TP53

00: -

The invention relates to 1,2,3',5'- tetrahydro- 2'H-spiroindole- 3,1 ' - pyrrolo[3,4- c]pyrrole]- 2,3'- dione compounds represented by formula (I), wherein all symbols and variables are as defined in the description. The compounds can find use in a method of prevention and/or treatment of diseases selected from the group consisting of cancer, immune diseases, inflammatory conditions, allergic skin diseases associated with excessive proliferation, blinding disease and viral infections.



Formula (I)

21: 2020/04975. 22: 12/08/2020. 43: 2021/06/25

51: C07C; C12P

71: EVONIK OPERATIONS GMBH

72: HAAS, Thomas, BECK, Simon, DEMLER, Martin

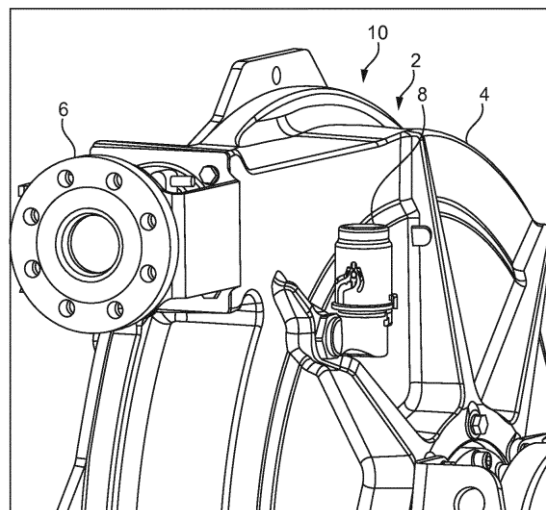
33: EP 31: 18156841.1 32: 2018-02-15

54: EXTRACTION OF ALKANOIC ACIDS

00: -

The present invention relates to a method of extracting an alkanolic acid and/or ester thereof from an aqueous medium, the method comprising : (a)contacting the alkanolic acid and/or ester thereof in the aqueous medium with at least one extracting medium for a time sufficient to extract the alkanolic acid and/or ester thereof from the aqueous medium

into the extracting medium, (b) separating the extracting medium with the extracted alkanoic acid and/or ester thereof from the aqueous medium wherein the extracting medium comprises: -a mixture of at least one alkyl-phosphine oxide, preferably Trioctylphosphine oxide (TOPO), and at least one alkane wherein the alkane comprises at least 12 carbon atoms.



21: 2020/04976. 22: 12/08/2020. 43: 2021/06/30
51: F04B

71: WATSON-MARLOW BREDEL B.V.
72: MOLENVELD, Vincent, OUDE VRIELINK, Ronald

33: GB 31: 1801843.2 32: 2018-02-05

54: A BREATHER ASSEMBLY FOR A PERISTALTIC PUMP

00: -

A breather assembly for a peristaltic pump comprising a breather tube and a cap. The cap is detachably connected to the breather tube and comprises a sealing portion. One of the breather tube and the cap comprise a guide track and the other of the breather tube and the cap comprises a protrusion which engages the guide track. The guide track comprises in series a first section and a second section which is separated from the first section by a first formation and is bounded at its distal end by a second formation. The protrusion is able to pass the first formation only when a predetermined first force is applied to the cap and the protrusion is able to pass the second formation only when a predetermined second force is applied to the cap such that the first and second formations prevent free movement of the protrusion along the guide track. When the protrusion is located within the first section, the sealing portion of the cap seals against the breather tube, and, when the protrusion is located within the second section, the sealing portion of the cap is spaced from the breather tube to allow fluid to pass out of the breather tube.

21: 2020/04991. 22: 12/08/2020. 43: 2021/06/30
51: C07D; C11B

71: V. MANE FILS

72: MURATORE, Agnès, GRASSET, Fabien

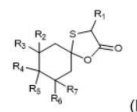
33: FR 31: 1850613 32: 2018-01-25

54: NEW SPIROOXATHIOLANONE COMPOUNDS, THEIR PREPARATION METHOD AS WELL AS THEIR USE IN PERFUME-MAKING AND AROMATICS INDUSTRY

00: -

The present invention relates to new fragrant and aromatic compounds having peachy, fruity and/or exotic fruit notes but without having any lactonic and fatty appearance. More specifically disclosed are new spirooxathiolanone compounds of general formula (I), a process for synthesizing said compounds, and uses thereof.

The present invention concerns new fragrant and aromatic compounds presenting peach, fruity and/or exotic fruit notes, but with no lactonic and fat aspects. More specifically, new spirooxathiolanone-type compounds responding to the following general formula (I) are disclosed:



as well as a method for synthesizing said compounds and their uses.

21: 2020/05010. 22: 13/08/2020. 43: 2021/06/24
51: B65G; F16C; G01P; G01R

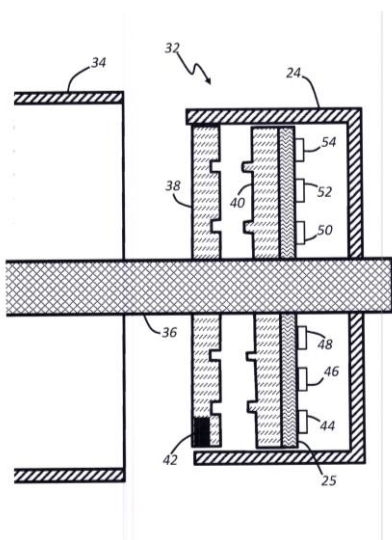
71: CONVEYOR INNOVATIONS PTY LTD, E-MOOLA.COM PTY LTD

72: GEDDES, Justin McCarthy, MORGAN, Russell

54: CONVEYOR IDLER ROLLER MONITORING ASSEMBLY

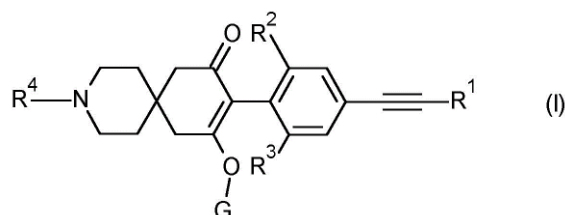
00: -

A monitoring assembly for monitoring assembly for monitoring a conveyor idler roller, the conveyor idler roller comprising at least one end cap, the conveyor idler roller comprising: a labyrinth seal comprising an inner seal part configured to rotate with the roller and an outer seal part configured to remain stationary within the end cap when the inner seal part is rotating; a magnet mounted on the inner seal part; and a printed circuit board mounted on the outer seal part, the printed circuit board comprising: at least one sensor for sensing information from the conveyor idler roller; a processor for recording the sensed information from the at least one sensor; and a communications device for transmitting and receiving information between the processor and an external user device.



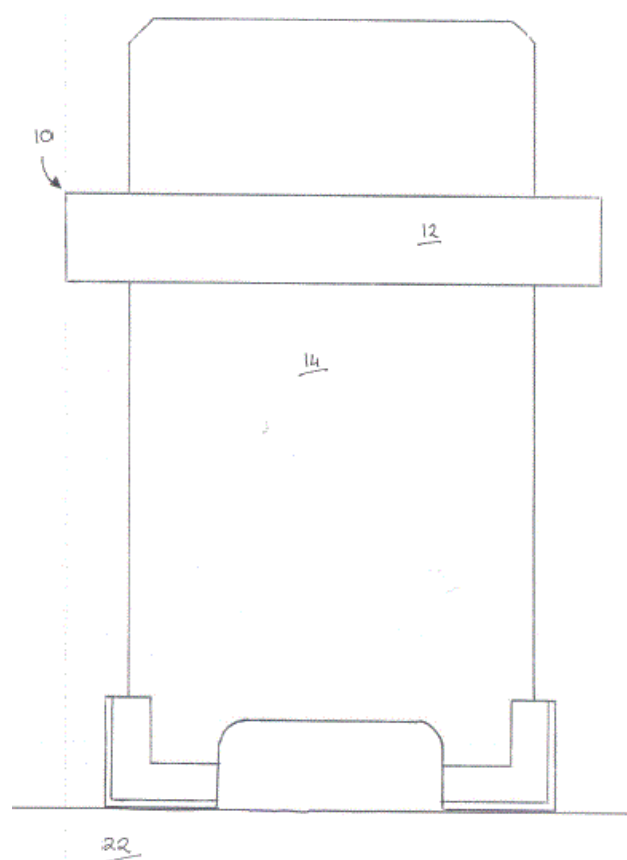
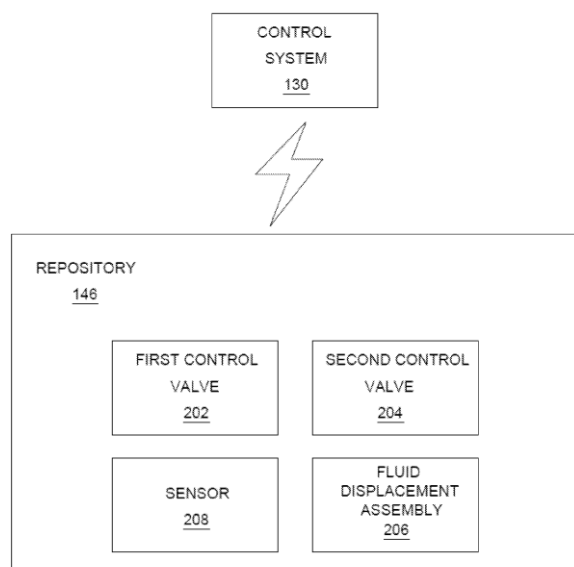
21: 2020/05044. 22: 2020/08/14. 43: 2021/06/24
 51: A01N; C07D
 71: Syngenta Participations AG
 72: HENNESSY, Alan Joseph, JONES, Elizabeth Pearl, HACHISU, Shuji, WILLETTS, Nigel James, DALE, Suzanna, GREGORY, Alexander William, HOULSBY, Ian Thomas Tinmouth, BHONOA, Yunas, COMAS-BARCELO, Julia
 33: GB 31: 1802558.5 32: 2018-02-16
54: HERBICIDAL 3-AZASPIRO[5.5]UNDECANE-8,10-DIONE COMPOUNDS
 00: -

The present invention relates to compounds of Formula (I), wherein R^1 , R^2 , R^3 , R^4 and G are as defined herein. The invention further relates to herbicidal compositions which comprise a compound of Formula (I), to their use for controlling weeds, in particular in crops of useful plants



21: 2020/05047. 22: 14/08/2020. 43: 2021/06/24
 51: A01C; A01G; B05B; C05F
 71: VALMONT INDUSTRIES, INC.
 72: LARUE, Jacob L.
 33: US 31: 62/649,619 32: 2018-03-29
54: IRRIGATION SYSTEM FOR APPLYING APPLICANT HAVING A MICROBE CONCENTRATION TO ENHANCE CROP PRODUCTION
 00: -

The present invention provides an irrigation system that includes a control system for determining whether to apply an applicant to an agricultural field. In an implementation, the control system includes memory operable to store one or more modules and a processor coupled to the memory. The processor is operable to execute the one or more modules to cause the processor to receive one or more signals representing a microbe characteristic from a soil sensor. The processor is also operable to determine whether to apply an applicant (i.e., water having a concentration of a biological or a microbe therein) to a soil based upon the microbe characteristics and to initiate operation of the irrigation assembly to apply the applicant to the soil in response when the soil requires the applicant.



21: 2020/05071. 22: 2020/08/17. 43: 2021/06/24

51: A61L

71: O'CONNELL, Jonathan

72: O'CONNELL, Jonathan

54: AN APPARATUS FOR SANITIZING A WORKING SURFACE

00: -

A sanitizing apparatus 10 includes a housing 12 configured to be displaceably mounted to a sneeze screen 14 so that the housing 12 can be displaced up and down along the height of the screen 14, wherein side walls 16 and a top wall 18 of the housing 12 are opaque. One or more light sources 20 which in use emit a sanitizing light are arranged in the housing 12 so that, when light is emitted from the light sources 20, a target surface 22 that is in use located below the housing 12 is illuminated and sanitized.

21: 2020/05089. 22: 17/08/2020. 43: 2021/06/25

51: F01K; F22B

71: BERIDZE, Enriko, IORAMASHVILI, Solomon, KOCHLADZE, Shalva

72: IORAMASHVILI, Solomon, KOCHLADZE, Shalva, JINCHARADZE, David

33: GE 31: AP 2018 14694 32: 2018-02-06

54: GEOTHERMAL ENERGY DEVICE

00: -

The technical outcome of the proposed geothermal energy device is to increase its efficiency (CE), to simplify and cheapen the construction. The geothermal energy device contains downstream and upstream pipes, which are filled with fluid thermal agent and placed in the borehole; they are connected to each other with a heat exchanger in the depth of the borehole. The downstream pipe is equipped with several mechanical non-return valves; on the same pipe there is also installed a down pushing pump of the thermal agent (e.g. isobutane). The end of the upstream pipe on the ground surface is directed towards the condensation type steam turbine, equipped with the controlled (e.g. electromagnetic) valve, and turned towards the

mentioned turbine by the Laval nozzle. The energy device additionally contains the device of the frequency/duration control to lock and unlock the mentioned controlled valve.

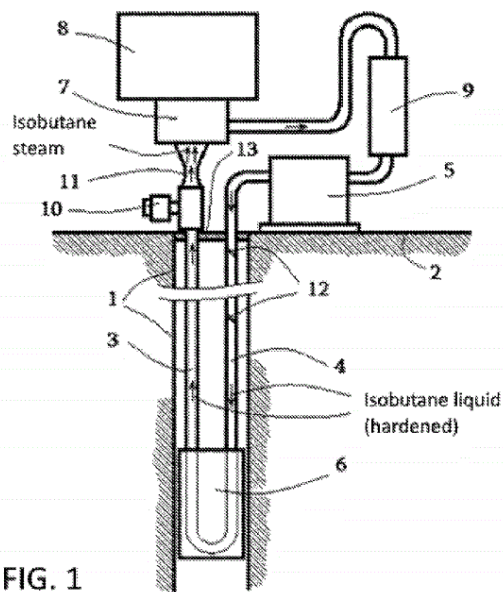


FIG. 1

21: 2020/05100. 22: 2020/08/18. 43: 2021/06/24
51: A01H; A01N; A01P
71: RICE AND SORGHUM INSTITUTE, SICHUAN ACADEMY OF AGRICULTURAL SCIENCES
72: NI, XIANLIN, DING, GUOXIANG, ZHAO, GANLIN, LIU, TIANPENG, LONG, WENJING, XIANG, JIANYU, WANG, XIAOKAI, LI, YUAN
33: CN 31: 201910762883. 2 32: 2019-08-19
54: EMASCULATION AND HYBRIDIZATION METHOD OF SORGHUM

00: -

The present invention discloses an emasculation and hybridization method of sorghum. In this method, first, a spike of a female parent of sorghum is pruned, and then a pruned spike of the female parent of sorghum is bagged in a transparent plastic bag with an emasculating solution overnight, where the emasculating solution includes ethephon, gibberellin, and tribenuron-methyl, and a solvent of the emasculating solution is a mixture of acetone and water in a volume ratio of 1:(8-10); next, the emasculating solution is watered from the bag onto anthers the next morning, while a cob is tapped until all unpollinated anthers are shed to complete artificial emasculation; finally, an artificially emasculated spike of the female parent of sorghum

is subjected to a second pruning, followed by bagging and isolation; after dew is dried, the female parent is pollinated with pollens of a target male parent to complete sorghum hybridization.

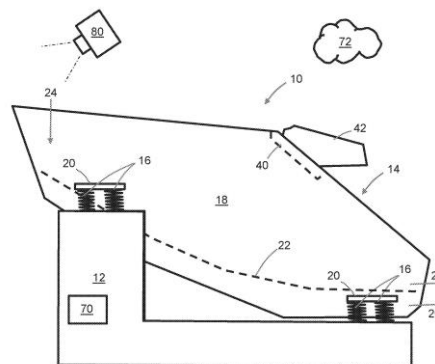
21: 2020/05116. 22: 2020/08/18. 43: 2021/06/24
51: B07B

71: Weir Minerals Africa (Proprietary) Limited
72: MDLAZI, Lungile
33: GB 31: 1803962.8 32: 2018-03-13

54: MINERALS PROCESSING

00: -

A minerals processing unit, such as a vibrating screen (10), is described. The vibrating screen (10) comprises a sensing mechanism operable to detect: (i) motion of the vibrating screen (10) in multiple directions, and (ii) detect planar deviations of a mesh surface (22). The sensing mechanism may comprise a plurality of discrete sensors (60-66), including a gyroscopic sensor (60) operable to detect linear movement in three mutually orthogonal directions, and one or more of roll, pitch, and yaw. The sensing mechanism may further comprise a temperature sensor (64a, 64b) for measuring the temperature of a drive mechanism (42) and an ambient temperature sensor (66a, 66b) for measuring a control value to compare with the drive mechanism temperature.



21: 2020/05139. 22: 19/08/2020. 43: 2021/06/25
51: G06F

71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY

72: LIU, Gang, HAN, Zhuozhan

33: CN 31: 201810084637.1 32: 2018-01-29

54: A METHOD FOR DYNAMICALLY DETERMINING OPTIMAL LAYERING NUMBER OF INSULATION IN TRANSIENT THERMAL CIRCUIT OF HIGH-VOLTAGE CABLE

00: -

The present invention discloses a method for dynamically determining the optimal layering number of insulation in the transient thermal circuit of high-voltage cable, including the following steps: S1, select the required high-voltage cable; S2, construct the transient thermal circuit model of the cable body and its corresponding mathematical model; S3, determine the parameters in the model; S4, edit the calculation program according to the mathematical model in S1; S5, import the parameters of each model, calculate the temperature value of the conductor under different layering number at a certain moment, and solve the changing rate of conductor temperature with the layering number; when the changing rate reaches the lower limit of the set changing rate, the layering number at this moment is the optimal layering number; S6, based on the calculation results in S5, determine the optimal layering number of insulation layer at the next moment; S7, repeat S5 and S6, then the real-time optimal layering number of insulation in the transient thermal circuit of high-voltage cable is obtained. The method in the present invention can obtain a more optimized transient thermal circuit model with a real-time correction characteristic, which laying an important foundation for the accurate calculation of cable ampacity.

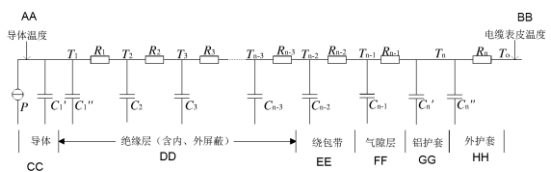
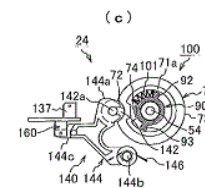
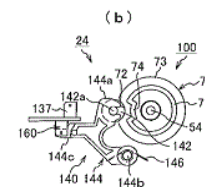
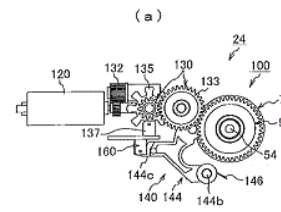


图 2

- AA CONDUCTOR TEMPERATURE
BB CABLE SKIN TEMPERATURE
CC CONDUCTOR
DD INSULATING LAYER (CONTAINING AN INNER AND OUTER SHIELDING LAYER)
EE WRAPPING TAPE
FF AIR GAP LAYER
GG ALUMINIUM SHEATH
HH OUTER SHEATH

The present invention relates to a fraud detecting mechanism which is provided with an opening/closing member for detecting fraud and preventing extraction, and which prevents the misalignment of stop position caused by overrun due to inertial force of a motor when stopping the opening/closing member in an initial rotation attitude. The present invention is provided with: an opening/closing member 50 which allows the paper sheet to pass when the paper sheet is in the initial rotation attitude, and which inhibits the paper sheet from passing when the paper sheet is in a non-initial rotation state; a rotary member 70 that integrally rotates with the opening/closing member; a driving member supported to be pivotable relative to the opening/closing member; and a driving transmission mechanism 100. The driving transmission mechanism is provided with: at least one driven piece provided to the rotary member; at least one driving piece that is provided to the driving member and rotationally drives the rotary member intermittently; and a buffering member 101 that biases the driven piece and the driving piece in the direction away from each other.



21: 2020/05141. 22: 19/08/2020. 43: 2021/06/25
51: G07D

71: JAPAN CASH MACHINE CO., LTD.

72: HARAGUCHI, Kohei

33: JP 31: 2018-010412 32: 2018-01-25

54: FRAUD DETECTING MECHANISM, PAPER SHEET CARRYING DEVICE AND PAPER SHEET HANDLING DEVICE

00: -

21: 2020/05142. 22: 19/08/2020. 43: 2021/06/25
51: B22F; B33Y

71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY

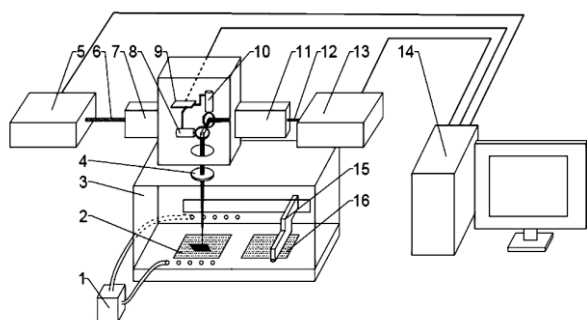
72: WANG, Di, DOU, Wenhao, YANG, Yongqiang

33: CN 31: 201810058878.9 32: 2018-01-22

54: AN INTEGRATED DUAL-TYPE LASER DEVICE FOR IMPROVING A SURFACE QUALITY OF SLM FORMED PARTS AND METHOD THEREOF

00: -

The invention discloses an integrated dual-type laser device for improving a surface quality of SLM formed parts and method thereof. The device comprises fiber laser, fiber laser beam expander and collimator, femtosecond laser, femtosecond laser beam expander and collimator, scanning galvanometer, lens, etc. Femtosecond laser technology is used to ablate and trim possible defects such as balling, bumps, powder adhesion etc. in and on the contour of each forming layer during the SLM layering manufacturing process, thereby improving the surface quality of each SLM forming layer without generating additional thermal influence, improving the roughness of the upper surface and side surface of the SLM formed part in the accumulation process, improving the part density and dimensional accuracy and other performance indicators, and reducing scrap rate of SLM processing.



21: 2020/05143. 22: 19/08/2020. 43: 2021/06/24

51: A61K; A61P

71: EUSTRALIS PHARMACEUTICALS LIMITED (TRADING AS PRESSURA NEURO)

72: VANKAN, Pierre, SASARMAN, Andreea, WILLMBRINK, Grasiela, Bourscheit

33: AU 31: 2018900324 32: 2018-02-02

54: ORAL FORMULATIONS AND USES THEREOF

00: -

Disclosed are therapeutic oral formulations comprising particular substituted pyridine based

compounds, their manufacture, and methods and uses of said formulations in treating substance P mediated pathways in the brain such as elevated intracranial pressure or the modification of expression of (hyper)-phosphorylated tau protein (t) in the brain for indications such as, but not limited to concussion, post-concussive (or post-concussion) syndrome (PCS), chronic traumatic encephalopathy (CTE), traumatic brain injury (TBI) and stroke.

21: 2020/05144. 22: 19/08/2020. 43: 2021/06/24

51: A61K; A61P

71: EUSTRALIS PHARMACEUTICALS LIMITED (TRADING AS PRESSURA NEURO)

72: VANKAN, Pierre, SASARMAN, Andreea, WILLMBRINK, Grasiela, Bourscheit

33: AU 31: 2018900325 32: 2018-02-02

54: PARENTERAL FORMULATIONS AND USES THEREOF

00: -

This invention relates generally to therapeutic parenteral formulations comprising particular substituted pyridine based compounds, their manufacture, and methods and uses of said formulations in treating elevated intracranial pressure for indications such as, but not limited to, traumatic brain injury and stroke.

21: 2020/05161. 22: 2020/08/19. 43: 2021/06/25

51: B61G

71: CRRC Qiqihar Rolling Stock Co., Ltd.

72: MENG, Qingmin, CUI, Yingjun, WANG, Yan, JIN, Pengdi, WANG, Changchun, CONG, Shengguo

33: CN 31: 201810701432.3 32: 2018-06-29

54: VEHICLE COUPLER, COUPLER TONGUE AND COUPLER BODY

00: -

Provided are a vehicle coupler, a coupler tongue and a coupler body. Upper traction platforms (101) and lower traction platforms (108) of the coupler tongue (01) and the hook body (03) are arranged in an offset manner in the horizontal direction, and the section R of a traction surface of the upper traction platform (101) and the section S of a traction surface of the lower traction platform (108) are obtained by sectioning the coupler tongue along any vertical surface across an axis of a pin hole (104); and the perpendicular distance between the point on the section R closest to a neck portion (102) and the axis of the pin hole (104) is k, and the perpendicular

distance between the point on the section S closest to the neck portion (102) and the axis of the pin hole (104) is m , and as such, $n=k-m$, and $10\text{ mm} = n = 25\text{ mm}$, thereby avoiding the situation where head portions of the upper traction platform and the lower traction platform of the coupler tongue and the coupler body are in the same vertical direction, in turn realizing that large stress zone weak parts of the upper traction platform and the lower traction platform of the coupler tongue are distributed in an offset manner, and greatly reducing the stress on the upper and lower traction platforms. Furthermore, the amount of displacement between the upper traction platform and the lower traction platform is in the range of 5 mm to 25 mm , and the displacement amount is more reasonable, such that the traction platform and a shocking platform are not too close in terms of distance, so as to avoid the situation where the structure between the traction platform and shocking platform abruptly changes, causing the force state of the position to deteriorate. In conclusion, the provided coupler tongue and coupler body can reduce stress, avoid premature fracturing of the upper and lower traction platforms, prolong the service life of the coupler tongue, reduce the maintenance cost and improve the transportation safety and reliability.

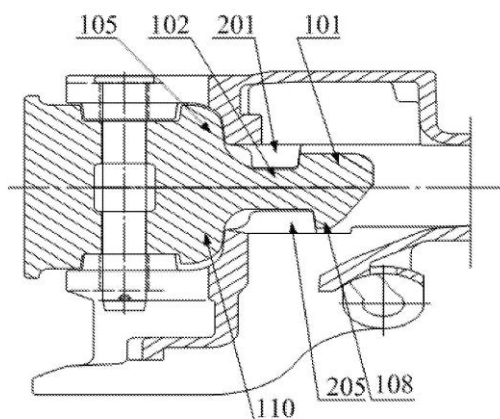


图 14

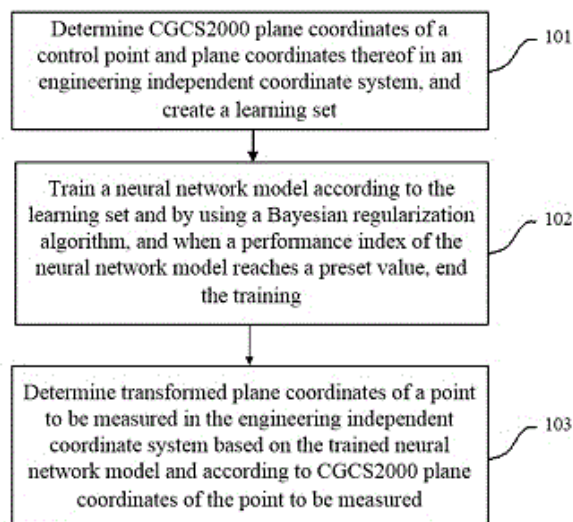
72: SONG, LEI, CHEN, XU, ZHAO, SHUO, ZHOU, BAOXING

33: CN 31: 202010421644.3 32: 2020-05-18

54: COORDINATE TRANSFORMATION METHOD AND DEVICE USING BAYESIAN REGULARIZED BP NEURAL NETWORK

00: -

The present application discloses a coordinate transformation method and device using a Bayesian regularized back propagation neural network (BRBPNN), so as to solve the problem of loss of precision in coordinate transformation of local regions when a whole area uses a unified set of coordinate transformation parameters during coordinate transformation, thus enhancing the accuracy of transformed coordinates. The method includes: determining China Geodetic Coordinate System 2000 (CGCS2000) plane coordinates of a control point and plane coordinates thereof in an engineering independent coordinate system, and creating a learning set; training a neural network model according to the learning set, when a performance index of the neural network model reaches a preset value, ending the training; and determining transformed plane coordinates of a point to be measured in the engineering independent coordinate system based on the trained neural network model and according to CGCS2000 plane coordinates of the point to be measured.



21: 2020/05171. 22: 2020/08/20. 43: 2021/06/24
51: G06N; G06F; G09B
71: SHANDONG JIAOTONG UNIVERSITY

21: 2020/05172. 22: 2020/08/20. 43: 2021/06/25
51: B26B
71: SKULL SHAVER, LLC

72: KULSHRESHTHA, NEEL B

33: US 31: 16/561,292 32: 2019-09-05

54: PIVOTING ROTARY FOUR BLADE RAZOR HEAD

00: -

A four blade electric shaver head adapted to be connected to an electric shaver including a handle and an electric motor. The head includes four rotary cutters arranged in a square configuration and four holders also arranged in a square configuration. Each of the holders holds one of the cutters. The inner edges of the four holders define a point at the center of the shaver head. A housing for the holders includes an upper surface. The holders are retained by the housing but are mounted for pivotal movement such that the inner edges and outer edges can move up and down. A spring biases the holders in a position wherein the outer edges lie above the upper surface and wherein the holders slant downwardly toward the center thereby forming a concave shaving surface. The holders are interconnected to each other so as to always pivot in unison.

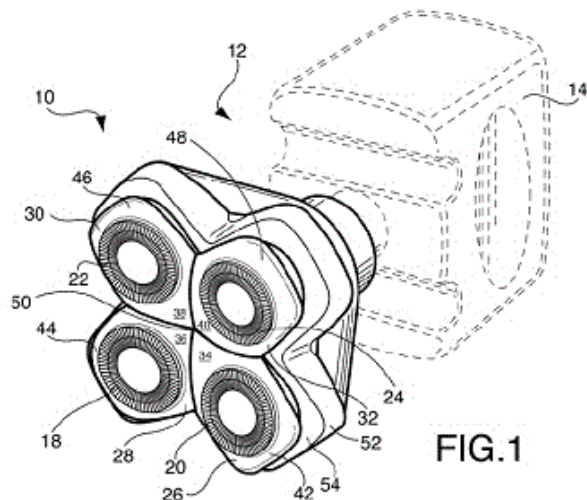


FIG. 1

21: 2020/05210. 22: 2020/08/21. 43: 2021/06/28

51: B01J; C07C

71: INSTITUTE OF COAL CHEMISTRY, CHINESE ACADEMY OF SCIENCES, SHANXI LU'AN MINING (GROUP) CO., LTD.

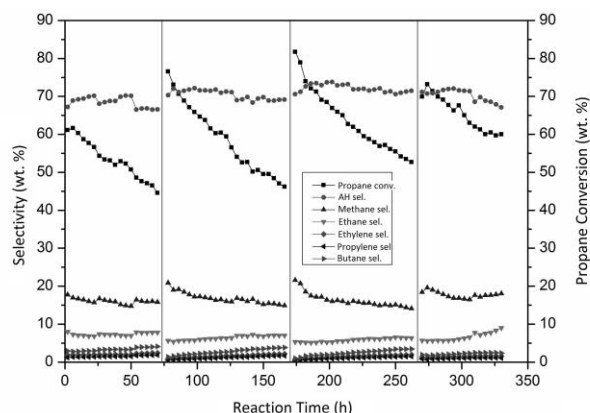
72: FAN, Weibin, SHI, Dezhi, ZHU, Huaqing, DONG, Mei, WANG, Jianguo, WU, Zhiwei, JIAO, Weiyong, LIU, Junyi, WANG, Dongfei, LI, Jinbo, CUI, Yanbin, ZHANG, Yibo

33: CN 31: 202010030766.X 32: 2020-01-13

54: AROMATIZATION CATALYST AND PREPARATION PROCESS AND USE THEREOF

00: -

The disclosure pertains to the field of catalysts, and in particular provides an aromatization catalyst and preparation process and use thereof. The catalyst comprises an inorganic oxide and a modified Ga-ZSM-5 zeolite, which comprises a modified ZSM-5 zeolite with a hierarchical macro-meso-microporosity and gallium deposited in channels of and/or on surfaces of the modified ZSM-5 zeolite. The hierarchical porosity of the modified ZSM-5 zeolite in the catalyst can reduce diffusion resistance of products during the aromatization reaction, thereby retarding carbon depositing rate and substantially improving catalytic activity, aromatic hydrocarbon selectivity, stability and lifetime of the catalyst. When being used in aromatization of propane, the catalyst exhibits a high stability, a lifetime of more than 320 hours, and a selectivity to aromatic hydrocarbons of up to 73.3 wt. %.



21: 2020/05211. 22: 2020/08/21. 43: 2021/06/22

51: H01M; H02J

71: DANIEL JACOBUS HAYWOOD

72: DANIEL JACOBUS HAYWOOD

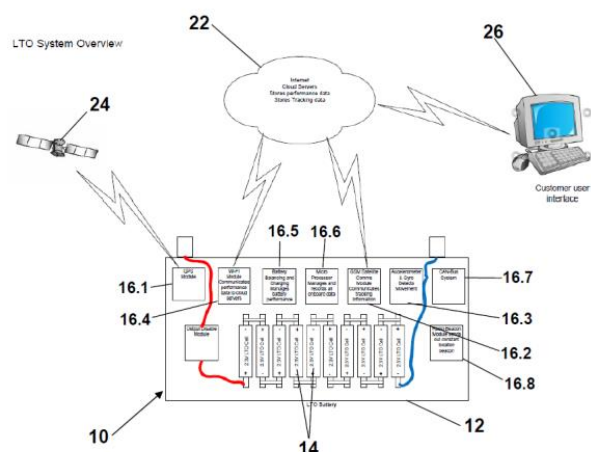
33: ZA 31: 2019/05559 32: 2019-08-23

54: LITHIUM-TITANATE BATTERY PACK

00: -

According to the invention there is provided an LTO battery pack comprising a housing; at least one LTO cell arranged within the housing; and a tracking system for real-time, long-range monitoring and satellite tracking of individual LTO battery packs. The tracking system includes one or more customized incident detecting sensors which are

incorporated into the housing and operatively associated with the LTO cell and which are configured to detect and provide a real-time signal when the LTO battery pack is being displaced; a cloud-based server and user interface which receives signals from the detecting sensors and which alerts a user of battery pack movement; and a mobile cellular and/or satellite connection.



21: 2020/05215. 22: 2020/08/21. 43: 2021/06/29

51: H03G; H01B; H04B

71: RF INDUSTRIES PTY LTD

72: SNELL, CHRISTOPHER JOHN, POPE, GREGORY STEVEN

33: AU 31: 201903091 32: 2019-08-23

54: CHANNELISED GAIN CONTROL OF LINE AMPLIFIERS

00: -

The present invention relates to a method for controlling gain of a line amplifier on a cable, the method comprising selecting an unused carrier frequency; transmitting a pulsed pilot signal on the unused carrier frequency into the cable; determining a pilot signal output strength by measuring signal strength of the pilot signal after amplification by the line amplifier; comparing the pilot signal output strength with a target signal strength to determine a difference; and adjusting the gain of the line amplifier corresponding to the difference.

LINE AMPLIFIER DOWNLINE GAIN CONTROL FLOWCHART



21: 2020/05219. 22: 21/08/2020. 43: 2021/07/16

51: A61K; B01D; C11B

71: BOTANICAL EXTRACTION SOLVENT FREE LTD.

72: DOOLEY, Kevin Allan, MORRIS, Elwood A., BELL, Joshua David, DOOLEY, Adam Charles

33: CA 31: 3006692 32: 2018-05-30

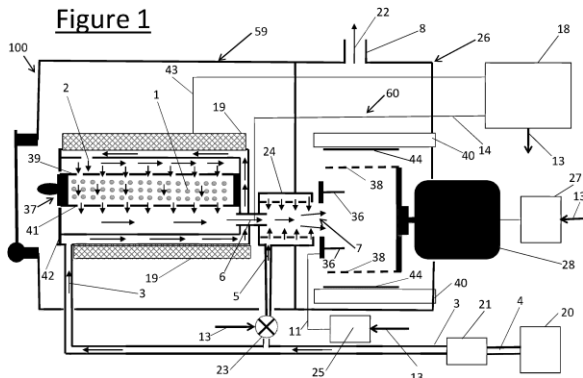
54: SYSTEM AND METHOD FOR EXTRACTING AND SEPARATING BOTANICAL OILS WITHOUT THE USE OF SOLVENTS

00: -

A system and method for extracting and separating botanical oils and compounds from botanical material without the use of solvents, having a vaporizing section which is further coupled to a centrifugal electrostatic precipitator for collection and segregation. The vaporizing section receives the botanical material through which a temperature-controlled inert gas is passed to evaporate specific vaporization temperature oils or compounds from the botanical material. The extracted vapor passes to the centrifugal electrostatic precipitator where the oil or compound is reduced back to the liquid state and is collected and segregated. The oils having the lower vapor temperature are collected first and the remaining oils are collected by specific and progressive vaporization temperature control. In some examples, selected vaporized compounds are waste exhausted as vapor by bypassing the centrifugal electrostatic precipitator at specific known

vapor temperatures, thereby eliminating potentially toxic or undesirable oils or compounds from being collected.

Figure 1



21: 2020/05220. 22: 21/08/2020. 43: 2021/06/24
51: A61B; G16H

71: MIT ENTWICKLUNGS GMBH

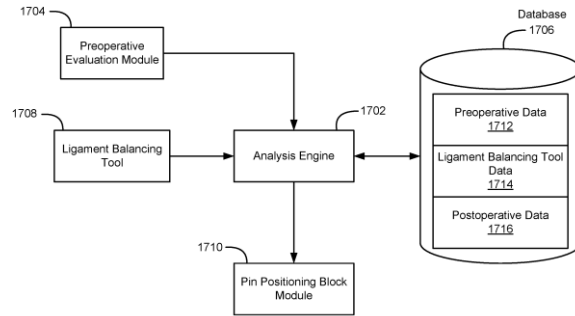
72: PASZICSNYEK, Thomas

33: US 31: 15/914,392 32: 2018-03-07

54: PATIENT-SPECIFIC ARTHROPLASTY SYSTEM

00: -

A patient-specific arthroplasty system comprising a database comprising preoperative data, ligament balancing tool data, and postoperative data associated with a plurality of patients, a preoperative evaluation module that receives preoperative data for a given patient, an analysis engine that analyzes the database, receives the preoperative data, and generates a surgical recommendation based on the preoperative data of the given patient and the analysis of the database, and a pin positioning block module that receives the surgical recommendation and determines a pin positioning block based on the surgical recommendation.



21: 2020/05221. 22: 21/08/2020. 43: 2021/06/24

51: C09D; E01C

71: ASPHALT PLUS, LLC

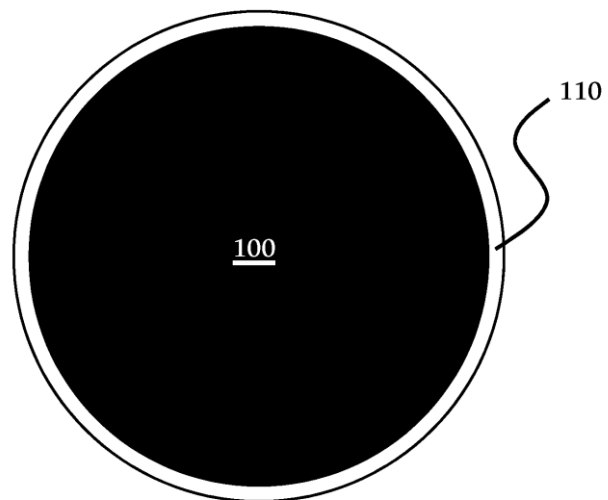
72: STEPP, James, CLARK, Redmond

33: US 31: 62/633,988 32: 2018-02-22

54: ENGINEERED CRUMB RUBBER COMPOSITION FOR USE IN ASPHALT BINDER AND PAVING MIX APPLICATIONS

00: -

An engineered crumb rubber asphalt additive may comprise a plurality of a structural particles and a non-elastomeric liquid. At least a portion of the surface of the structural particles is coated with the non-elastomeric liquid. The structural particles may be crumb rubber particles. The engineered crumb rubber asphalt additive may also comprise a reagent. The non-elastomeric liquid may be selected from the group consisting of workability/compaction agents, slipping agents, and anti-stripping agents.



21: 2020/05250. 22: 2020/08/24. 43: 2021/06/25

51: G06Q

72: SEGAL, Darren, EPSTEIN, Wayne Saul
33: ZP 31: 2018/01239 32: 2018-02-23

00: -

51: B60H; H01M

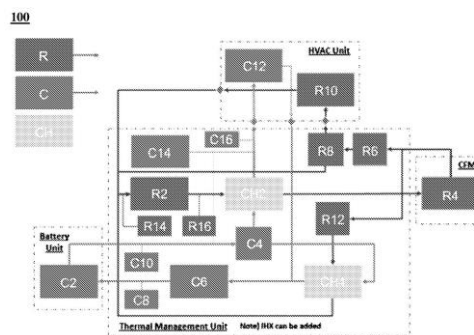
72: YAMAMOTO, Yuji, Tarun

33: IN 31: 201811002807 32: 2018-01-24

00: -

The present subject matter relates to an electric vehicle thermal management system comprising at

least one air conditioning system and a battery thermal management system, with a battery, for being used in hot climate region. The system comprising: a refrigerant cycle comprising a compressor, a first condenser, a second condenser; expansion devices, and an evaporator, wherein the compressor being configured to compress refrigerant vapours by increasing temperature and pressure of a refrigerant; and wherein the first condenser and the second condenser being configured to condense high pressure and high temperature of the refrigerant; and a coolant cycle comprising an electric water pump, a battery heat exchanger, the first condenser, and a heater, wherein the electric water pump being configured to pump a coolant into the coolant cycle, the first condenser being configured to heat the coolant using the heat captured from the refrigerant cycle and configured to transfer the heated coolant to the heater.



51: H01Q

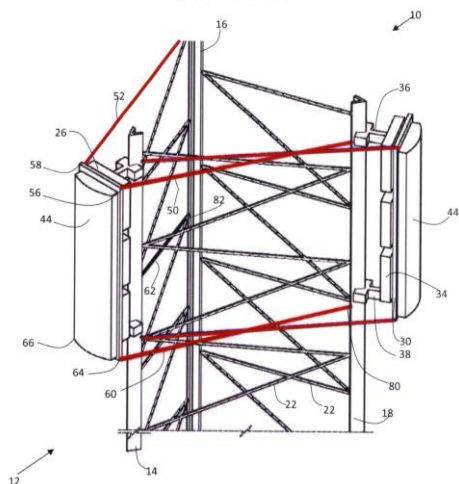
72: ADAMS, Mark

33: ZA 31: 2019/04681 32: 2019-07-17

54: SUPPORT STRUCTURE

00: -

A support structure which comprises a tower with at least three uprights, a bracket which is attached to one upright, and cables which anchor the bracket to the other two uprights.



21: 2020/05275. 22: 2020/08/25. 43: 2021/06/24

51: A61M; G01F

71: JURONG PEOPLE'S HOSPITAL

72: SONG, Yingqun, WU, Suqing, ZHANG, Gufang, HU, Yue, LI, Yue, HE, Chenghong, ZHANG, Xuefeng, TANG, Xiaojuan

54: WATCH AUTO-INDUCTION INFUSION ALARM DEVICE

00: -

The present invention discloses a watch auto-induction infusion alarm device, comprising a liquid level induction device and a watch receiving device. The liquid level induction device comprises a first power supply and a sequentially connected level sensor, a control module, a relay, an oscillator circuit, and a wireless transmitter. The relay is electrically connected with the first power supply. The watch receiving device comprises a second power supply and a sequentially connected wireless signal receiving module, a single-chip microprocessor control module, a vibrator, and a liquid crystal display. The single-chip microprocessor control module is electrically connected with the second power supply. The wireless signal receiving module receives wireless signals transmitted by the wireless transmitter.

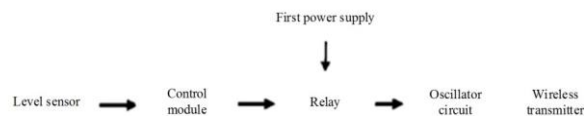


FIG. 1

21: 2020/05276. 22: 2020/08/25. 43: 2021/06/24

51: B03C; B03D

71: TONGLING NONFERROUS METALS GROUP HOLDING CO., LTD.

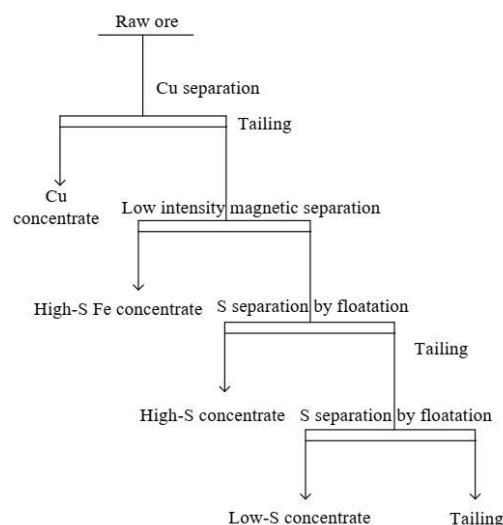
72: ZHU, Jisheng, GUO, Shimin, WANG, Linghui, GAO, Chengjia, LIU, Qiang, CHEN, Jinan

33: CN 31: 201910790029.7 32: 2019-08-26

54: METHOD OF RECOVERING S AND FE FROM COMPLEX CU-S-FE POLYMETALLIC ORE CONTAINING EASY-TO-FLOAT SILICATE GANGUE

00: -

A method of recovering S and Fe from a complex Cu-S-Fe polymetallic ore containing an easy-to-float silicate gangue, including the following steps: step (1): separating Cu from a raw ore to obtain a Cu concentrate and a Cu tailing; step (2): subjecting the Cu tailing to low intensity magnetic separation to obtain a high-S Fe concentrate and a low intensity magnetic separated tailing; step (3): subjecting the low intensity magnetic separated tailing to magnetic separation to obtain a high intensity magnetic separated concentrate and a high intensity magnetic separated tailing; step (4): subjecting the high intensity magnetic separated concentrate to flotation to recover magnetic S and Fe by recovering low-magnetic pyrrhotite and magnetite to obtain a high-S Fe concentrate; step (5): subjecting the high intensity magnetic separated tailing to flotation to recover non-magnetic S and Fe by recovering a non-magnetic pyrite to obtain an S concentrate.



21: 2020/05289. 22: 25/08/2020. 43: 2021/06/24

51: A45C; H04W

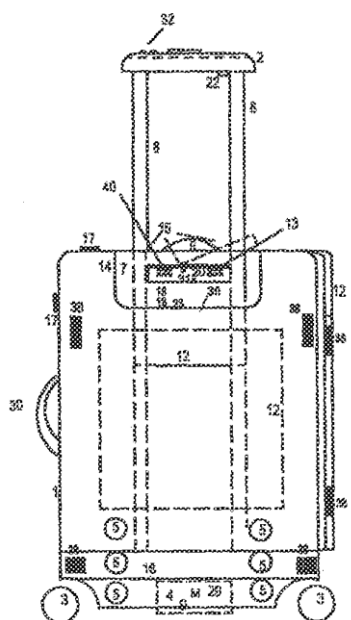
71: OSSEIRAN, Ali Sami Bek

72: OSSEIRAN, Ali Sami Bek

54: SMART MULTIFUNCTION ELECTRICALLY POWERED SUITCASE

00: -

A container, such as a suitcase, bag, cart, valise, or trunk includes various only one of its kind wheel sets combinations, including a wheel set combining both spinner wheels and inline skate wheels in the same article, wheels that extends and retracts for ultimate maneuverability in different scenarios, and utilizing powered wheels incase located at the corner or back side to provided added stability and control when tilting the container or transporting it up stairs. The container also may include advanced convenience features to include other than power assisted motion, may include telescopic handle with electronic components and various additional "high tech" options, such as built-in communication, navigation, navigation and/or direction indication capabilities, mobile phone, WiFi capabilities, USB outlet, rechargeable batteries, electronic power bank charging ports, smart locking, identification and/or tracking, and various safety features.



Back View - model sample

21: 2020/05333. 22: 2020/08/27. 43: 2021/06/28

51: H02K

71: Qilu University of Technology

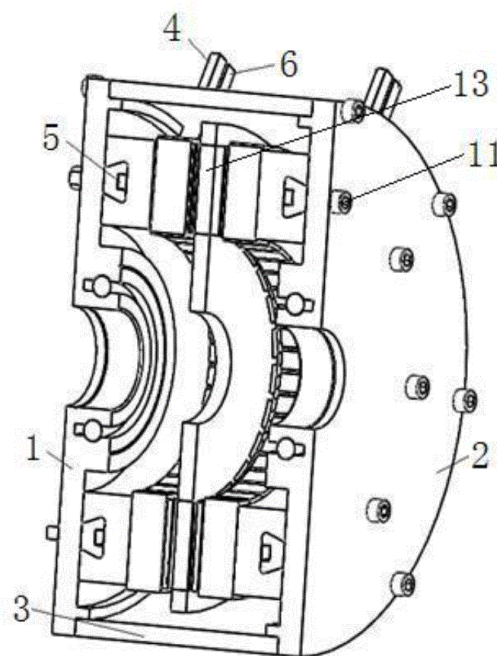
72: SUN, Mingcan, CAO, Maoyong, MA, Fengying, SUN, Kai, JI, Peng

33: CN 31: 202010514321.9 32: 2020-06-08

54: NEW TYPE DISC MOTOR WITH COOLING CHANNELS

00: -

A new type disc motor with cooling channel includes a casing, a front end cover and a rear end cover. A stator is fixedly arranged inside the casing. The stator includes a stator core and a winding. An annular dovetail slot is arranged in the radial middle position of the yoke of the stator core. A plurality of dovetail slot wedges are evenly fitted on the annular dovetail slot. A square slot is arranged at the bottom of the dovetail slot wedge, and a cooling channel is arranged inside the annular dovetail slot. The dovetail slot wedge is fixedly connected to the front end cover or the rear end cover by bolts, the yoke of the stator core is radially provided with a through slot, the dovetail slot wedge is installed with the annular dovetail slot through the through slot.



21: 2020/05334. 22: 2020/08/27. 43: 2021/06/28

51: H02K

71: Qilu University of Technology

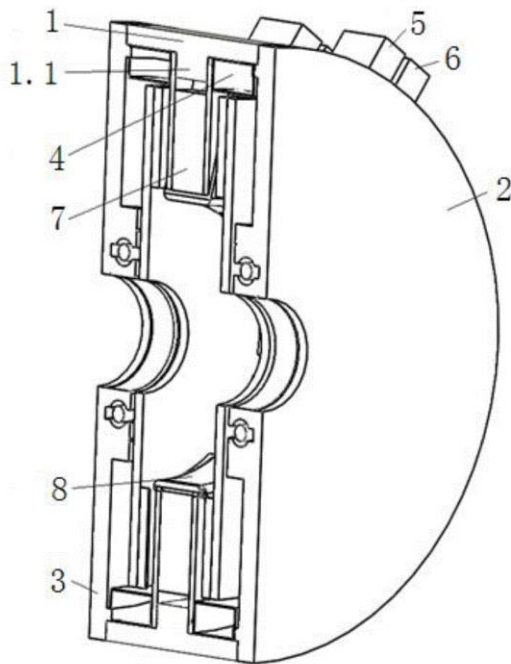
72: SUN, Mingcan, CAO, Maoyong, MA, Fengying, SUN, Kai, JI, Peng

33: CN 31: 202010514310.0 32: 2020-06-08

54: NEW TYPE DOUBLE-ROTOR SINGLE STATOR AMORPHOUS ALLOY DISC MOTOR

00: -

A new type double-rotor single stator amorphous alloy disc motor, including a casing, a front end cover and a rear end cover, a stator is fixedly arranged in the casing, and rotors are arranged on both sides of the stator, the stator includes an amorphous alloy stator core and a winding, wherein a boss is arranged inside the casing, two sides of the amorphous alloy stator core are provided with positioning slots, the stator is placed in a position parallel to the boss, and positioning pressing plates are arranged in the positioning slots. The positioning pressing plates are placed on the both sides of the amorphous alloy stator core to prevent the stator from axial movement. The positioning pressing plates are also placed in the positioning slots on the both sides of the amorphous alloy stator core, which also prevents the stator from circumferential rotation.



21: 2020/05335. 22: 2020/08/27. 43: 2021/06/28

51: H02K

71: Qilu University of Technology

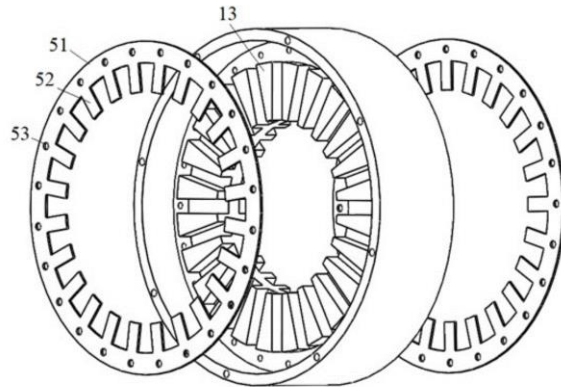
72: SUN, Mingcan, CAO, Maoyong, MA, Fengying, SUN, Kai, JI, Peng, GE, Aidong

33: CN 31: 202010514318.7 32: 2020-06-08

54: DOUBLE-ROTOR SINGLE STATOR DISC MOTOR

00: -

A double-rotor and single stator disc motor, which relates to the technical field of motors, including a casing, a front end cover and a rear end cover, and a winding and a stator core located in the casing, the front-end cover and the rear-end cover. A casing boss is arranged at the inner side of the casing corresponding to the stator core, and the casing boss and the casing are of an integrated structure, and the positioning pressing plates are installed on both sides of the stator core. A cooling channel is arranged between the casing boss and the front end cover and the rear end cover. The present disclosure has the advantages of solving the problems of stator fixation and motor cooling.



21: 2020/05336. 22: 2020/08/27. 43: 2021/06/28

51: H02K

71: Qilu University of Technology

72: SUN, Mingcan, CAO, Maoyong, MA, Fengying, SUN, Kai, JI, Peng

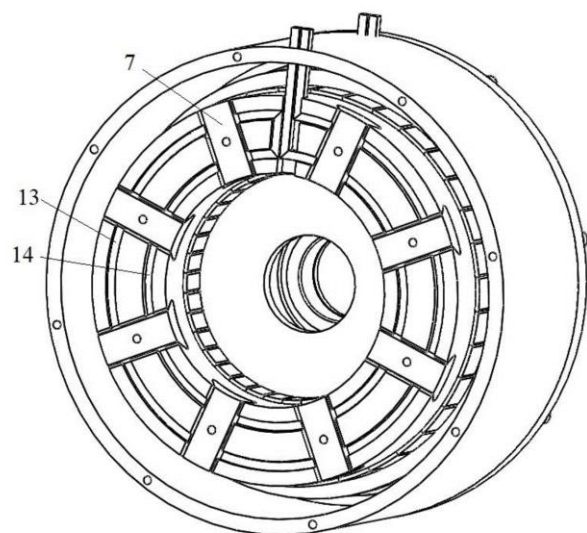
33: CN 31: 202010514326.1 32: 2020-06-08

54: COOLING SYSTEM AND DISC MOTOR WITH COOLING SYSTEM

00: -

A cooling system and a disk motor with the cooling system, relating to the technical field of motors, and includes a cooling channel inlet, a cooling channel outlet, and a cooling channel connected to the cooling channel inlet and the cooling channel outlet, the cooling channel is located on a stator, the stator is provided with a cooling channel placement slot, and the stator is provided with a dovetail slot and a dovetail wedges for for accommodating and fixing the stator, and a cooling channel opening is provided at the position of the dovetail wedge corresponding to the cooling channel placement slot. Without increasing the axial length of the motor, the present

disclosure has the advantages of compact structure, good cooling effect, which will not apparently increase in processing difficulty.

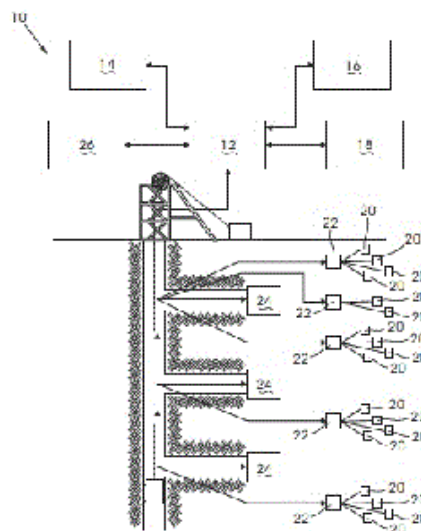


21: 2020/05371. 22: 2020/08/28. 43: 2021/06/30
51: G08B, E21F
71: RED MINING AFRICA (PTY) LTD
72: PRETORIUS, ABRAHAM VISSER,
HOOGENBOEZEM, JOHANNES PAULUS,
HARINGTON, GAVIN
33: ZA 31: 2019/05660 32: 2019-08-28

54: COMMUNICATION SYSTEM

00: -

This invention concerns a communication system for communicating to workers underground in a mine. The system comprises a server for receiving and sending information and a number of remote units which are in communication with the server. The remote units have means for receiving information from the server and means for visually communicating the information received from the server to workers at a remote location. The server is configured to send and/or receive information from external devices forming part of at least one external system or network.



21: 2020/05377. 22: 28/08/2020. 43: 2021/06/24
51: B01D; C02F; C25B

71: STOLPESTAD, Tor M., BENDIKSEN, Rolf Birger

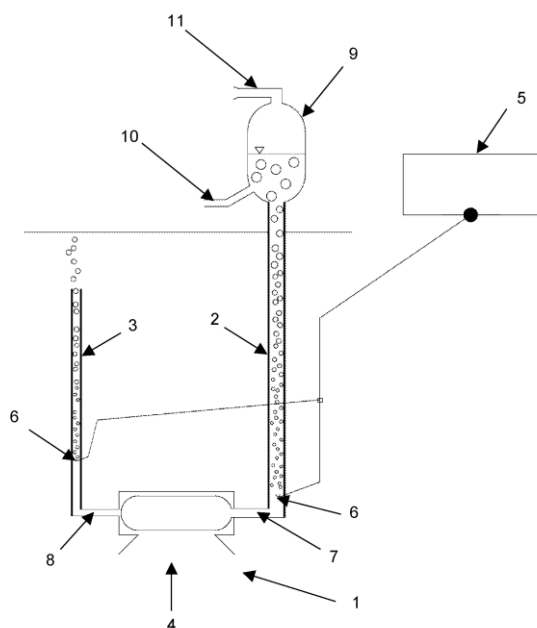
72: STOLPESTAD, Tor M., BENDIKSEN, Rolf Birger

33: NO 31: 20180328 32: 2018-03-06

54: A METHOD AND SYSTEM FOR PRODUCING FRESHWATER USING A REVERSE OSMOSIS MEMBRANE SYSTEM

00: -

This publication relates to a method and a system for producing freshwater through a reverse osmosis process in a submerged membrane system requiring a differential pressure over the membrane system. The differential pressure is provided by introducing gas bubbles in the riser device (2) downstream the outlet (7) for fresh water in the riser device (2). The system comprises at least one submerged, reverse osmosis unit (1), with an inlet (4) for water and an outlet (7) for fresh water, a riser device (2) extending from the outlet (7) of the submerged membrane system to at, above or below sea level and a system for providing a low pressure side for the reverse osmosis process.



21: 2020/05382. 22: 2020/08/28. 43: 2021/06/24
 51: B61L; G08G; H04L
 71: Deutsche Bahn AG
 72: KINDLER, Daniel, SCHÖPF, Karl, GOTTHARDT, Kai, VON BONIN, Moritz, KUPERBERG, Michael Dr., BURCIU, Sergiu-Matei
 33: DE 31: 10 2018 204 509.7 32: 2018-03-23

54: METHOD FOR PLANNING OR CONTROLLING THE MOVEMENTS OF A PLURALITY OF VEHICLES OVER A NETWORK OF ROUTES

00: -

The invention relates to a method for planning or controlling the movements of a plurality of vehicles over a network of routes, the nodes and edges of which are formed by route elements. The control and management of route elements by a central authority is complex and susceptible to faults. The aim of this invention is therefore to provide a method of the type in question which enables a simplification of the technical infrastructure that is to be maintained within the network and improves its availability and thus also the resistance of the network to technical disruptions. This is achieved according to the invention in that any vehicle as an entity represented in a distributed ledger system enters into transaction agreements with the route elements, likewise represented as entities in this distributed ledger system, wherein each transaction agreement of a vehicle with a route element comprises at least one time specification, which defines the period of time

for which the route element is occupied by the vehicle.

21: 2020/05386. 22: 2020/08/28. 43: 2021/06/24
 51: C08G
 71: Huntsman Petrochemical LLC
 72: KLEIN, Howard P., RENKEN, Terry L., LI, Cheng-Kuang
 33: US 31: 62/644,848 32: 2018-03-19

54: ETHERAMINE MIXTURE CONTAINING POLYETHER DIAMINES AND METHOD OF MAKING AND USING THE SAME

00: -

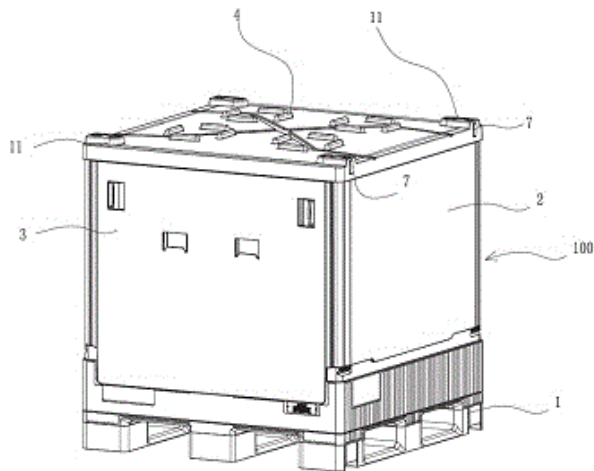
An etheramine mixture comprising one or more polyether diamines, methods for its production, and its use as a curing agent for epoxy resins. The etheramine mixture may also be used in the preparation of polyamides and polyurea compounds.

21: 2020/05393. 22: 28/08/2020. 43: 2021/06/25
 51: B65D
 71: SHANGHAI HONGYAN RETURNABLE TRANSIT PACKAGINGS CO., LTD.
 72: JIAN, YUAN LI, CAO, YI WEN
 33: CN 31: 201810135815.9 32: 2018-02-09

54: CONTAINER

00: -

A container (100). The container (100) comprises a base (1), two pairs of opposing side plates (2, 3), and a cover (4). The two pairs of opposing side plates (2, 3) are connected to the base (1). The cover (4) can be locked on a top portion of the side plate (2) via a locking device (7). Each of the four top corners of the container (100) are provided with a locking device (7). The four locking devices (7) are arranged opposite each other along respective diagonal lines of the cover (4), and each locking device (7) comprises one lock tongue member (8) provided on the cover (4) and one lock slot (10) provided on the corresponding side plate (2). The lock tongue member (8) has a lock tongue (803) and is arranged to be movable relative to the cover (4), such that the lock tongue (803) can extend into the lock slot (10) to lock the cover (4) to the side plate (2) and can move away from the lock slot (10) to unlock the cover (4). Each lock slot (10) extends outwards along the corresponding diagonal line of the cover (4) to form the side plate (2). The cover (4) of the container (100) can be unlocked from any direction.



21: 2020/05413. 22: 31/08/2020. 43: 2021/06/30
51: B66C

71: KONECRANES GLOBAL CORPORATION

72: PEIPPO, Juha, KALLIOKOSKI, Kirsi

33: FI 31: 20185367 32: 2018-04-18

54: BOX GIRDER, IN PARTICULAR CRANE GIRDER, AND CRANE HEREWITH AS WELL AS MANUFACTURING METHOD THEREFOR

00: -

The present invention relates to box girder (1), in particular crane girder, having two side plates (2a, 2b) spaced apart from each other, at least one chord plate (2c, 2d) connecting the two side plates (2a, 2b) to each other and at least one transverse plate (5) that is arranged between the side plates (2a, 2b) connecting the side plates (2a, 2b) to each other, wherein a welded joint is provided between the respective chord plate (2c, 2d) and the side plates (2a, 2b). In order to facilitate the manufacturing process of a box girder (1), in particular a crane girder, it is suggested, that at least one form-fitting connection, in particular plug-in connection, is provided between the transverse plate (5) and each of the two side plates (2a, 2b). In addition, the invention also relates to a crane having such a box girder (1) and to a corresponding manufacturing method therefor.

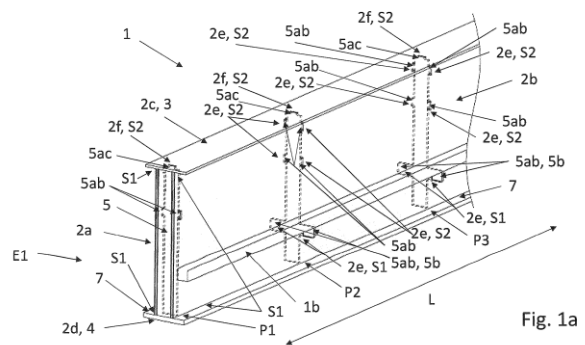


Fig. 1a

21: 2020/05418. 22: 2020/08/31. 43: 2021/06/23

51: F41A

71: FN Herstal S.A.

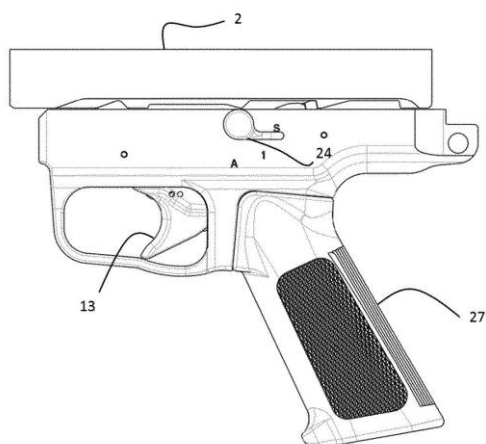
72: FRANSSEN, Pascal

33: EP(BE) 31: 18156024.4 32: 2018-02-09

54: SAFETY DEVICE FOR A FIREARM

00: -

The present invention relates to a safety device for a firearm that makes it possible to prevent a shot from being fired, without blocking the rearming function, the said safety device comprising a retainer (5) that can be moved between a stopping position that blocks the moving parts (2) of the weapon in a rear position, and a released position that allows the said moving parts (2) to move in both directions, the said safety device comprising a safety element (1) that can move between a position that blocks the retainer (5) in the stopping position and a position that releases the retainer (5), the said safety element (1) bearing against an immobile part of the safety device and the said safety element (1) being able to be moved towards the position that releases the retainer (5) through a rearward movement of the moving parts (2).



21: 2020/05419. 22: 2020/08/31. 43: 2021/06/23
51: A61P; C07K

71: Amgen Inc.

72: HUANG, Zhe, STEVENS, Jennitte LeAnn, FLYNN, Gregory, FODOR, Szilan, DARIS, Mark

33: US 31: 62/650,762 32: 2018-03-30

54: C-TERMINAL ANTIBODY VARIANTS

00: -

The invention generally relates to anti-sclerostin antibodies having C-terminal modifications, and compositions comprising such antibodies.

21: 2020/05423. 22: 2020/08/31. 43: 2021/06/23
51: B61F

71: Amsted Rail Company, Inc.

72: WIKE, Paul Steven, PETRUNICH, Thomas

33: US 31: 62/639,780 32: 2018-03-07

54: RAILWAY TRUCK ASSEMBLY HAVING FORCE-DETECTING LOAD CELLS

00: -

A force analysis system and method include a truck assembly that is configured to travel along a track having rails. The truck assembly includes a first side frame, a second side frame, a bolster extending between the first side frame and the second side frame, a first wheel set coupled to the first side frame and the second side frame, a second wheel set coupled to the first side frame and the second side frame, and one or more load cells disposed within the first side frame and/or the second side frame. The load cell(s) are configured to detect forces exerted in relation to the first side frame, the second side frame, and/or the bolster.

21: 2020/05425. 22: 2020/08/31. 43: 2021/06/23

51: H01L

71: JACQUES, Jonathan

72: JACQUES, Jonathan

33: US 31: 15/912,343 32: 2018-03-05

54: PYRAMIDAL WALL SECTIONS

00: -

Solar panel assemblies and wall sections using such assemblies are described. In one solar panel assembly, there is a mounting post and three or more triangular shaped panels. Each triangular shaped panel is a solar panel responsive to a first spectrum of light and transparent to a second spectrum of light. The solar panel assembly also includes hinges which connect the triangular shaped panels to the mounting post. The at least three triangular shaped panels can move between a flat configuration and an inverted pyramid configuration. In a further embodiment of the solar panel assembly, the triangular shaped panels form a first solar panel layer, and the assembly also includes one or more additional solar panel layers. Each of the additional solar panel layers being responsive to an associated spectrum of light.

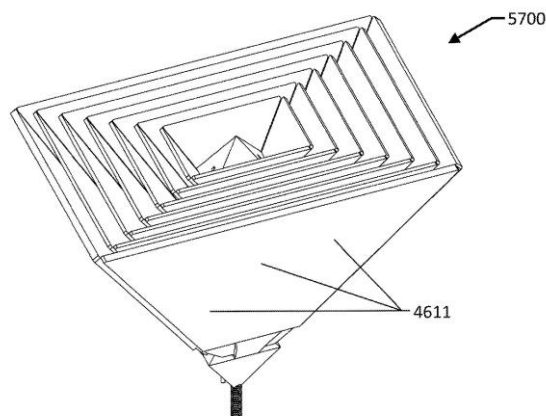


Figure 187

21: 2020/05429. 22: 2020/08/31. 43: 2021/06/23
51: C02F

71: Natural Synergies Ltd

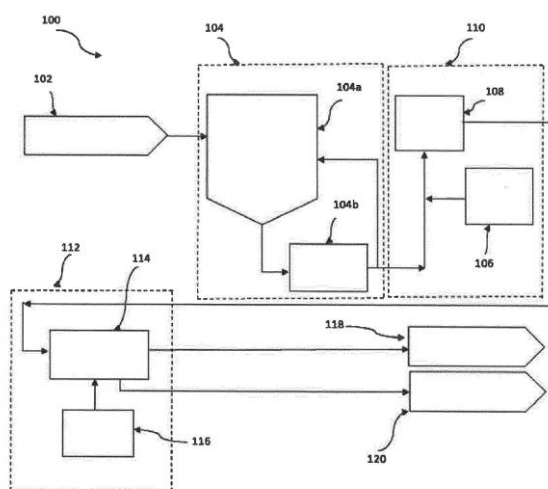
72: SALAM, Tabarik Faisal, MELCHOR ROJAS, Maria Victoria

33: GB 31: 1804034.5 32: 2018-03-13

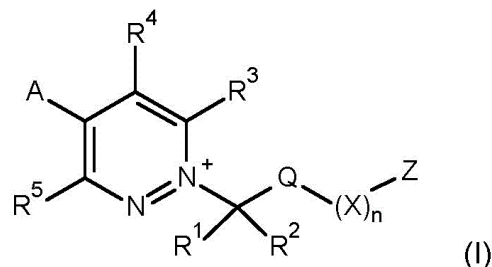
54: AN IMPROVED DEWATERING METHOD AND APPARATUS

00: -

The present invention provides a method and an apparatus for treating sewage sludge, the method comprising applying a plurality of ultrafine bubbles to a sludge to form an at least partially aerated sludge, applying acoustic energy to the aerated sludge to agitate at least a portion of the ultrafine bubbles and applying an electric field to the aerated sludge to impart an electrophoretic mobility to the ultrafine bubbles to thereby facilitate separation and transport of water molecules from solid matter within the sludge.



21: 2020/05431. 22: 2020/08/31. 43: 2021/06/23
 51: A01N; C07D
 71: Syngenta Participations AG
 72: SCUTT, James Nicholas, WILLETTS, Nigel James, SONAWANE, Ravindra, PHADTE, Mangala, KANDUKURI, Sandeep Reddy, SASMAL, Swarnendu, ARMSTRONG, Sarah, MCGRANAGHAN, Andrea
 33: IN 31: 201811012074 32: 2018-03-30
54: HERBICIDAL COMPOUNDS
 00: -
 Compounds of the formula (I) wherein the substituents are as defined in claim 1, useful as pesticides, especially as herbicides.

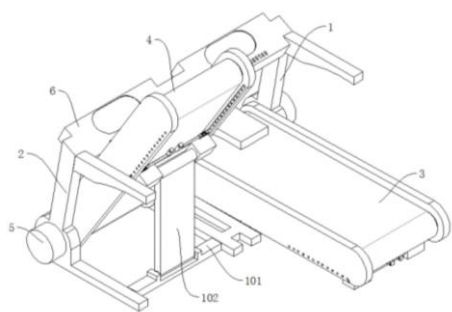


21: 2020/05449. 22: 2020/09/01. 43: 2021/07/16
 51: A63B
 71: Binzhou University
 72: Xinqiang LI

54: VERTICALLY FOLDABLE DOUBLE TREADMILL

00: -

Disclosed herein is a vertically foldable double treadmill, which relates to fitness equipment. The vertically foldable double treadmill includes a first bracket, a second bracket, a first belt assembly, a second belt assembly, a first control panel and a second control panel. The first bracket and the second bracket are fixedly connected. A first support plate is rotatably connected between the first belt assembly and the first bracket. A second support plate is rotatably connected between the second belt assembly and the second bracket. When the treadmill is used for single-person training, the control panel is operated to allow the electric telescopic rod to retract, so that the first chuck is separated from the second chuck, avoiding the synchronous rotation between the first and second belt assemblies. When the treadmill is used for two-person training, the electric telescopic rod is controlled by the control panel to extend to drive the second chuck to be chucked into the first chuck, ensuring the synchronous rotation of the first and second belt assemblies. When one person feels tired, the other person can accordingly reduce the speed to achieve the mutual promotion.



21: 2020/05510. 22: 04/09/2020. 43: 2021/07/07
51: C12N
71: Bharat Biotech International Limited
72: ELLA, Krishna Murthy, DARAM, Vijaya Kumar
33: IN 31: 201841004703 32: 2018-02-07
54: A PROCESS FOR ENTEROVIRUS PURIFICATION AND INACTIVATION AND VACCINE COMPOSITIONS OBTAINED THEREOF
00: -

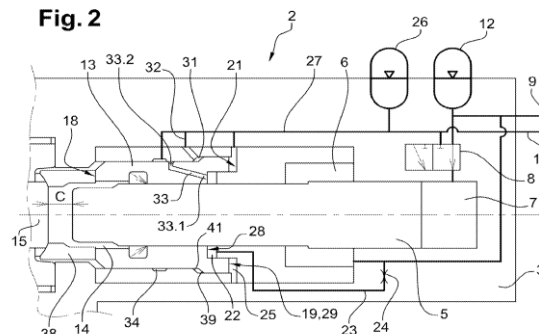
The present invention pertains to the field of industrial scale inactivation of various enteroviruses and large and industrial scale production of enterovirus vaccine compositions and combinations of various enteroviruses so obtained.

21: 2020/05522. 22: 04/09/2020. 43: 2021/07/07
51: B25D; E21B
71: MONTABERT
72: COMARMOND, Jean-Sylvain
33: FR 31: 18/51249 32: 2018-02-14
54: ROTARY-PERCUSSIVE HYDRAULIC DRILL PROVIDED WITH A CONTROL CHAMBER WHICH IS PERMANENTLY CONNECTED TO A LOW-PRESSURE ACCUMULATOR
00: -

The rotary-percussive hydraulic drill (2) comprises a body (3); a fitting (15); a striking piston (5) configured to strike the fitting (15); an impact piston (13) having a front face (18) facing the fitting (15) and a rear face (19) facing a rear wall (21) of a cavity (14) which receives the impact piston; and a main hydraulic supply circuit comprising a high-pressure fluid supply line (9) and a low-pressure fluid return line (11). The body (3) and the impact piston (13) define a first control chamber (22) which is permanently connected to the high-pressure fluid supply line (9) and configured to urge the impact piston (13) forwards, and a second control chamber (25) which is configured to urge the impact piston

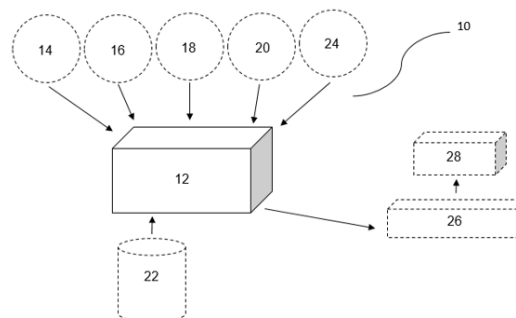
(13) forwards and permanently connected to a low-pressure accumulator (26) which is connected to the low-pressure fluid return line (11).

Fig. 2



21: 2020/05589. 22: 2020/09/09. 43: 2021/07/08
51: A01G
71: XOLA KESWA
72: Xola KESWA
54: RAISED CONTAINER WICKING IRRIGATION SYSTEM
00: -

The invention relates to a raised container wicking irrigation system and a method of cultivation of plants using the raised container wicking irrigation system of the invention.

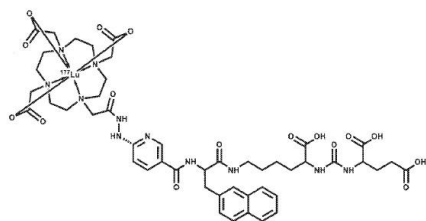


21: 2020/05600. 22: 09/09/2020. 43: 2021/07/02
51: A61K; C07F; A61P
71: INSTITUTO NACIONAL DE INVESTIGACIONES NUCLEARES
72: Guillermina FERRO FLORES, Blanca Eli OCAMPO GARCÍA, Myrna Alejandra LUNA GUTIÉRREZ, Clara Leticia SANTOS CUEVAS, Erika Patricia AZORÍN VEGA, Nallely Patricia JIMÉNEZ MANCILLA, Tania HERNÁNDEZ JIMÉNEZ, Flor de María RAMÍREZ DE LA CRUZ
33: MX 31: MX/a/2018/003175 32: 2018-03-14
54: 177LU-DOTA-HYNIC-IPSMAS AS A THERAPEUTIC RADIOPHARMACEUTICAL

TARGETING PROSTATE-SPECIFIC MEMBRANE ANTIGEN

00: -

The invention relates to a new lutetium-177 therapeutic radiopharmaceutical as an inhibitor of prostate-specific membrane antigen (iPSMA), wherein 1,4,7,10-tetraazacyclododecane-N,N',N'',N''''-tetraacetic acid (DOTA) bonded to the heterocyclic molecule hydrazinonicotinamide (HYNIC), generates a rigid chemical structure that minimises the number of conformers and intramolecular hydrogen bonds, thereby producing a favourable spatial orientation of the active site (Lys(Nal)-NH-CO-NH-Glu) in the molecule, for biological recognition by the PSMA protein. The new ¹⁷⁷Lu-DOTA-HYNIC-iPSMA radiopharmaceutical accumulates, with high affinity in vivo, in tumours that overexpress the PSMA protein, acting as a radiotherapeutic agent. The purpose of the invention is to provide a new specific radiopharmaceutical (molecular target radiopharmaceutical) for the treatment of tumours with PSMA overexpression.



21: 2020/05604. 22: 09/09/2020. 43: 2021/07/02

51: B21C; G06K

71: AUSTRIA METALL GMBH

72: Werner AUMAYR

33: EP 31: 18163493.2 32: 2018-03-22

33: EP 31: 19156796.5 32: 2019-02-12

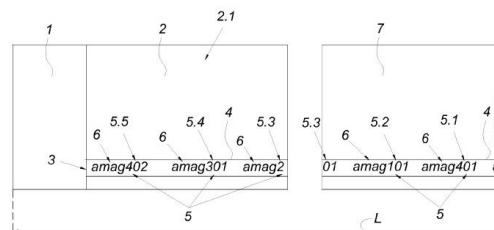
33: EP 31: 19159835.8 32: 2019-02-27

54: COIL MADE OF A COILED METAL STRIP HAVING A MARKING, AND USE OF SAID MARKING

00: -

The invention relates to a coil (1) made of a coiled metal strip (2), in particular an aluminum strip, having a marking (3, 103) on a flat side (2.1) of the metal strip (2). The aim of the invention is, inter alia, to be able to clearly identify the strip segments (7) severed from said coil (1). This aim is achieved, according to the invention, in that, for allocating strip segments (7) severed from the coil (1), the marking

(3, 103) assigns the coil (1) and the original position of the marking on the coil (1) an information track, preferably extending across the entire strip length (L) of the metal strip (2), comprising a de-Bruijn sequence (5) of successively arranged words (5.1, 5.2, 5.3, 5.4, 5.5 or 5.6 to 5.25) of said de-Bruijn sequence, or of a subset of the words (5.1, 5.2, 5.3, 5.4, 5.5 or 5.6 to 5.25) of said de-Bruijn sequence.



21: 2020/05622. 22: 2020/09/10. 43: 2021/07/02

51: G06F

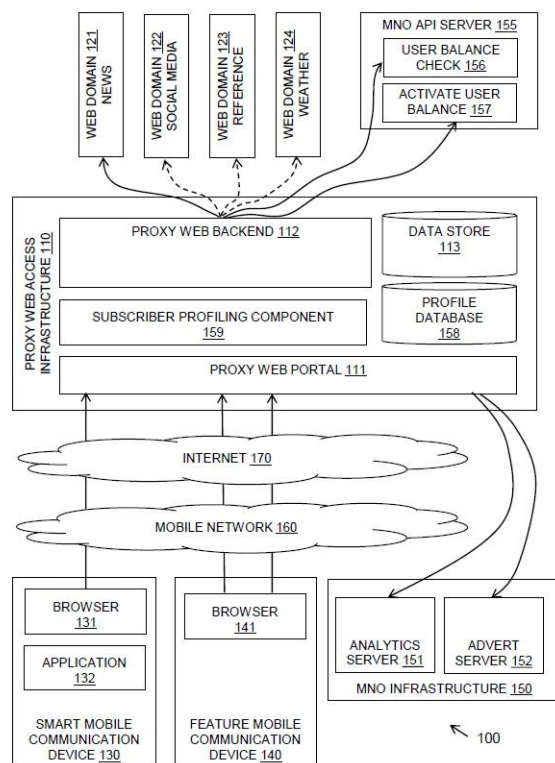
71: UPSTREAM MOBILE COMMERCE LIMITED

72: KRIEF, Guy Stephane, KASTANIS, Konstantinos

54: PROXY WEB ACCESS FOR MOBILE NETWORKS

00: -

A method and system for proxy web provision for mobile networks are provided. The method includes: providing a proxy web portal by a proxy web access infrastructure between a mobile communication device and external web content; receiving a request at the web portal from the mobile communication device using a mobile network, wherein the request is for content hosted by or accessed via the web portal; determining that the request is from a subscriber of a mobile network operator (MNO); and providing the content using the mobile network with no data charges to the subscriber. Providing the content includes: anonymizing the user requests when providing the content; and using caching and data compression to minimize data consumption for the content.



21: 2020/05628. 22: 10/09/2020. 43: 2021/07/02
 51: A01N; A23L; A23P; A61K
 71: ERBER AKTIENGESSELLSCHAFT
 72: GOTTSCHALK, Pia, BINDER, Eva-Maria, COLE, Stephen

33: EP 31: 18000312.1 32: 2018-03-29

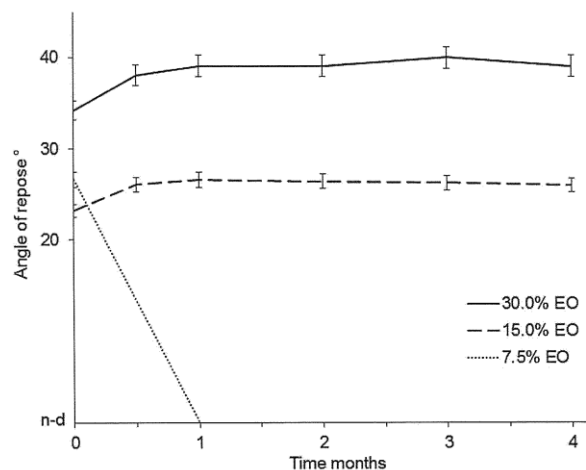
54: PARTICLE CONTAINING AT LEAST ONE VOLATILE SUBSTANCE, PROCESS FOR ITS PREPARATION, A FOOD OR FEED ADDITIVE CONTAINING THE SAME AND USE

00: -

The invention is directed to a particle containing at least one hydrophobic matrix material and at least one volatile substance, the particle contains 60% to 90% by weight of the at least one matrix material, whereby the at least one matrix material is selected from the group of fats, hydrogenated triglycerides and waxes that are solid or semi-solid at 20 °C and 1 atmosphere, that the particle contains 10% to 40% by weight of the at least one volatile substance, whereby the at least one volatile substance is selected from essential oils and/or plant extracts, that the at least one volatile substance is homogeneously distributed in the at least one matrix material, and that the particle has a sphericity from 0.800 to 0.999, as well as to a process for preparing

said particle as well as to a food and/or feed additive containing said particle and optionally at least one further component.

Figure 1A



21: 2020/05631. 22: 10/09/2020. 43: 2021/07/02
 51: E04C; F16L

71: NEXII BUILDING SOLUTIONS INC.

72: DOMBOWSKY, Michael Anthony,
 DOMBOWSKY, Benedict John

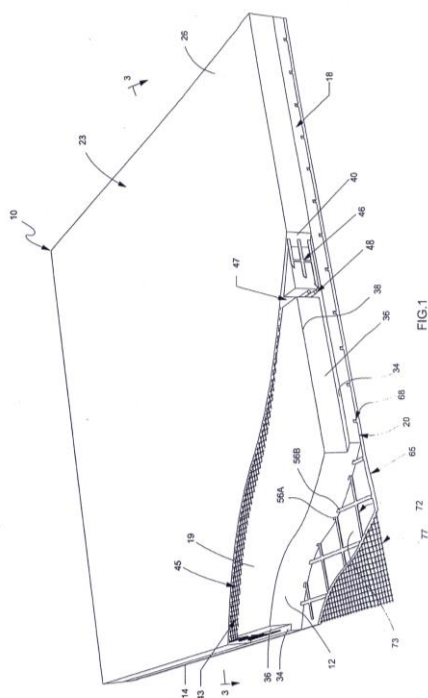
33: CA 31: 2,994,868 32: 2018-02-13

54: PREFABRICATED INSULATED BUILDING PANEL WITH AT LEAST ONE CURED CEMENTITIOUS LAYER BONDED TO INSULATION

00: -

A prefabricated insulated building panel features a sheet of rigid thermally insulating material, an inner structural layer connected to one face of the insulating material, and an outer layer of cured composite cementitious material connected to an opposite second face of the rigid insulating material with a thickness allowing the cured composite cementitious layer to be supported at the insulating material by bonding action therewith. The panel also features channels at the interface between the composite cementitious outer layer and the insulating material formed by grooves in the second face of the insulating material extending to a periphery of the panel. These channels afford pressure equalization and moisture drainage capabilities to the panel. Additionally, the inner structural layer comprises a layer of cured composite cementitious material bonded to the insulating material, which has a thickened edge portion along

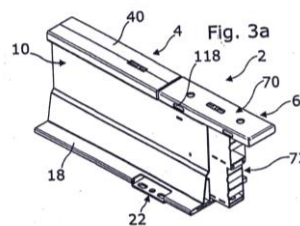
the periphery of the panel compared to strengthen the panel.



21: 2020/05632. 22: 10/09/2020. 43: 2021/07/02
51: E01F
71: HIGHWAY CARE LIMITED
72: BULLOCK, Adrian
33: GB 31: 1803726.7 32: 2018-03-08
33: GB 31: 1815091.2 32: 2018-09-17
54: A BARRIER SYSTEM, BARRIER CONNECTION APPARATUS, BARRIER ELEMENT AND METHOD OF USE THEREOF
00: -

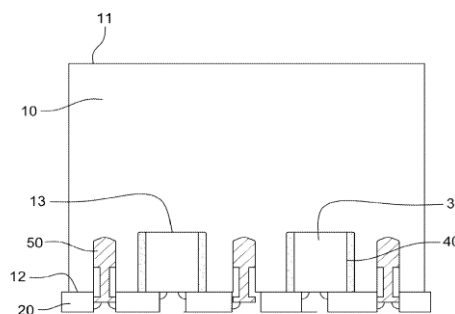
A barrier system is provided including first and at least second barrier elements. At least a portion of the first and second barrier elements have a hollow interior. Barrier connection apparatus is provided for releasably connecting an end of the first barrier element to an end of the at least second barrier element in use. The barrier connection apparatus has connection means provided on or associated with the same which are arranged to allow detachable attachment to each of the first and at least second barrier elements in use. The barrier connection apparatus is arranged and dimensioned so that at least a part of the barrier connection apparatus is insertable into the hollow interior portions of the first and second barrier elements in

use in order to releasably connect the first and at least second barrier elements together.



21: 2020/05635. 22: 10/09/2020. 43: 2021/07/02
51: C25C
71: TOKAI CARBONE SAVOIE, METSOL AG
72: DRAGO DRAGUTIN, Juric, RIVOALAND, Loig
33: FR 31: 18/52129 32: 2018-03-12
54: CATHODE ASSEMBLY FOR ELECTROLYTIC CELL
00: -

The invention relates to a cathode assembly for an electrolytic cell comprising, firstly, a cathode block (10) having a second surface (11) and a first surface (12). The cathode block (10) also comprises at least one sealing groove (13) opening onto the first surface (12) thereof and a plurality of electric contact pins (50) mounted in electrical contact with the first surface (12) of the cathode block (10). The cathode assembly then comprises at least one first current-carrying plate (20) in electrical contact with at least one electric contact pin (50), and which is connected to at least one unit for connecting to a source of electric current. The cathode assembly finally comprises at least one current-carrying bar (30) having an expansion coefficient substantially identical to the expansion coefficient of the current-carrying plate (20), which is sealed in the at least one sealing groove (13) while being attached to at least one current-carrying plate (20).



21: 2020/05651. 22: 2020/09/11. 43: 2021/07/02

51: A61M

71: KAISHA PACKAGING PRIVATE LTD

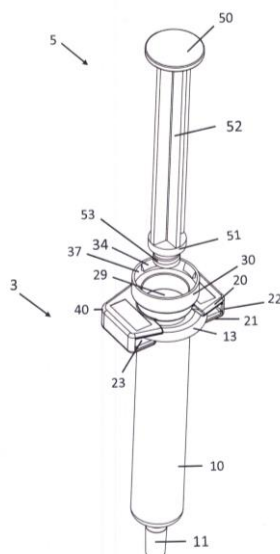
72: DADACHANJI, Rishad Kairus

33: EP 31: 19198135.6 32: 2019-09-18

54: DEVICE FOR LOCKING A PLUNGER ROD OF A SYRINGE AFTER USE AND PREVENTING RE-USE OF THE SYRINGE, AND SYRINGE ASSEMBLY

00: -

In a locking device for locking a plunger rod a plunger rod locking portion is provided for locking a plunger rod of a syringe after use and preventing re-use of the syringe. A chamber is formed inside the plunger rod locking portion for receiving the disc-shaped proximal end of the plunger rod after use of the syringe. The plunger rod locking portion comprises at least one positive locking device configured to positively lock the axial position of the plunger rod by positive-fit engagement with the disc-shaped proximal end of the plunger rod and retain the disc-shaped proximal end of the plunger rod inside the chamber. The locking device provides the functionality of a tamper-evident plunger rod locking device once a dose of medication has been injected by pushing the plunger rod forward, for preventing inadvertent re-use of the syringe.



21: 2020/05662. 22: 11/09/2020. 43: 2021/07/02

51: A61K; C07K; A61P

71: CHUGAI SEIYAKU KABUSHIKI KAISHA, AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH

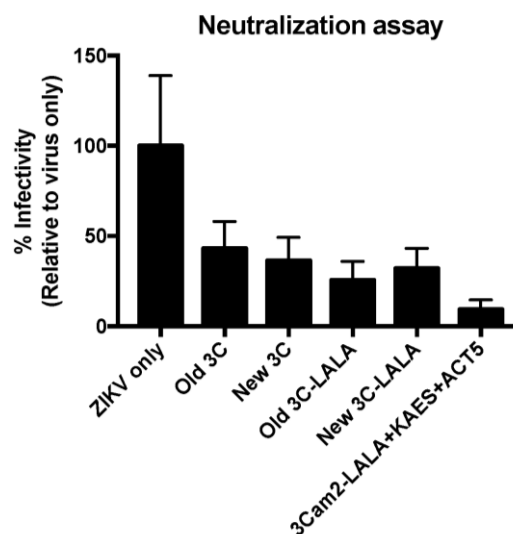
72: FINK, Katja, WANG, Cheng-I, NG, Lisa Fong Poh, RENIA, Laurent, SAMPEI, Zenjiro, KOO, Xing'er Christine

33: SG 31: 10201802164Y 32: 2018-03-15

54: ANTI-DENGUE VIRUS ANTIBODIES HAVING CROSS-REACTIVITY TO ZIKA VIRUS AND METHODS OF USE

00: -

The disclosure provides anti-dengue virus (anti-DENV) antibodies having a cross-reactivity to Zika virus (ZIKV) and methods of making and using the same. The anti-DENV antibodies have uses that include treating or preventing ZIKV infection. In addition, claimed antibodies may further comprise variant Fc regions containing LALA, KAES & ACT5 mutations.



21: 2020/05670. 22: 11/09/2020. 43: 2021/07/02

51: F41A

71: Oliver FISCHER

72: Oliver FISCHER

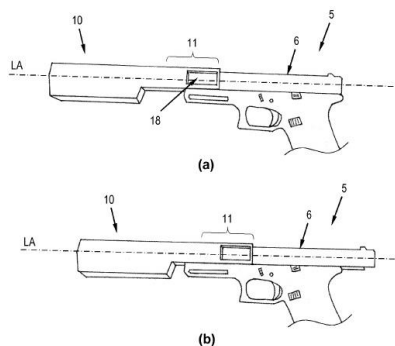
33: DE 31: 10 2018 107 418.2 32: 2018-03-28

54: SILENCER FOR A PORTABLE FIREARM

00: -

The invention relates to a silencer (10) for a portable firearm (5), in particular a pistol, wherein the end portion (11) of the silencer (10) facing the gun barrel of the portable firearm is suitable for fastening to the breechblock (6) of the portable firearm such that the

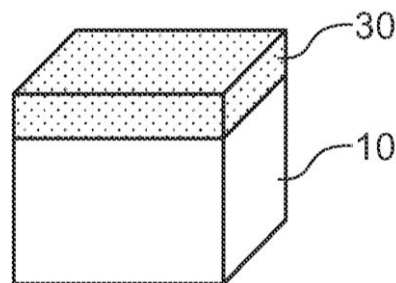
silencer can be moved independently of the gun barrel together with the breechblock. The invention further relates to a portable firearm (5), in particular a pistol, having a silencer (10) according to the invention.



21: 2020/05679. 22: 11/09/2020. 43: 2021/07/07
 51: C22C; C23C; F24S
 71: MANNESMANN PRECISION TUBES FRANCE
 72: RACCURT, Olivier, GENTZBITTEL, Jean-Marie, SICARDY, Olivier, BOURGUIGNON, Francis, MARCHAIS, Pierre-Jean
 33: FR 31: 1852240 32: 2018-03-15
54: METHOD FOR FORMING A LAYER OF SINGLE-PHASE OXIDE (Fe, Cr)₂O₃ WITH A RHOMBOHEDRAL STRUCTURE ON A STEEL OR SUPER ALLOY SUBSTRATE

00: -

The invention relates to a method for forming a layer of single-phase oxide (30) (Fe, Cr)₂O₃ with a rhombohedral structure on a steel or super alloy substrate (10), comprising the following successive steps: a) supplying a steel or super alloy substrate (10) covered with a surface layer, the steel comprising at least 2 wt.-% chromium; b) removing the surface layer in an atmosphere containing at least 0.2 atm dioxygen, creating a level of micro-deformation in the crystal lattice of the steel or super alloy that is greater than $1.0 \cdot 10^{-3}$, and a heating at a heating rate higher than 400°C/s, such as to form a layer of rhombohedral oxide (30) (Fe, Cr)₂O₃, c) carrying out a thermal treatment, in the presence of air, at a water partial pressure of less than 10.000ppm, and at a temperature varying between 400°C and 1000°C, such as to grow the layer of rhombohedral oxide formed in step (b) to a thickness from 70nm to 150nm.



21: 2020/05680. 22: 11/09/2020. 43: 2021/07/07
 51: B28D; B44C
 71: MASTER DYNAMIC LIMITED
 72: LUI, Siu Lung, WANG, Yingnan, HUANG, Jianxing
 33: HK 31: 18102632.0 32: 2018-02-23
54: METHOD OF MARKING A SOLID-STATE MATERIAL, MARKINGS FORMED FROM SUCH METHODS AND SOLID-STATE MATERIALS MARKED ACCORDING TO SUCH A METHOD
 00: -

A method of forming a non-optically detectable identifiable marking invisible to the naked eye, said marking is formed from a plurality of recesses of multiple levels at an outer surface of an article formed from a solid-state material, and said method including the steps of: forming a plurality of recesses of multiple levels within a predetermined region of a photoresist applied to an outer surface of an article formed from a solid-state material, wherein said plurality of recesses of multiple levels is formed by grayscale lithography and wherein said one or more recesses extend at least partially through the photoresist and towards said outer surface of the article formed from a solid-state material; and applying an etching process such that at least a portion of the outer surface of said article is exposed and etched so as to form a plurality of etched portions extending into said article from the outer surface of the article and corresponding to said plurality of recesses; wherein said predetermined region of said photoresist defines an identifiable marking to be applied to the outer surface of said article; wherein said plurality of etched portions forms the non-optically identifiable marking on the outer surface of said article.

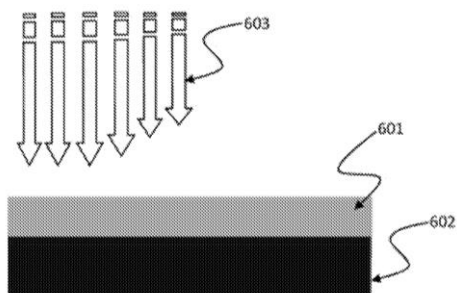


Figure 6a

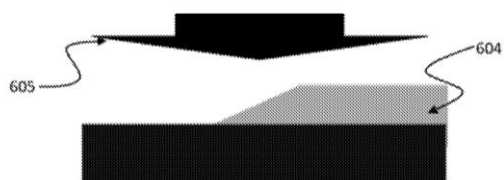


Figure 6b



Figure 6c

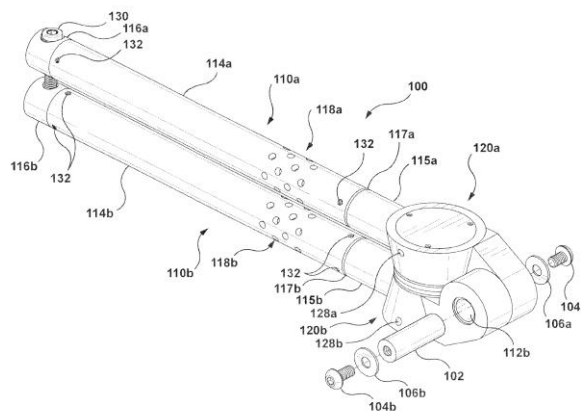


FIG. 1

21: 2020/05749. 22: 16/09/2020. 43: 2021/07/07
51: E03F; E04B

71: ACO SEVERIN AHLMANN GMBH & CO
KOMMANDITGESELLSCHAFT

72: TONAR, David

33: DE 31: 10 2018 104 121.7 32: 2018-02-23

**54: SUPPORTING AND REINFORCING ELEMENT,
FLAT METAL SHEET, DRAINAGE SYSTEM AND
PRODUCTION METHOD**

00: -

The invention relates to a supporting and reinforcing element for a box gutter for linear-drainage purposes, having a base piece (10) and two side parts (11), which form a U-shaped profile (13) for accommodating the box gutter, wherein the base piece (10) is designed in the form of a bearing means for a base of the box gutter. The invention is distinguished in that the base piece (10) and the side parts (11) form sheet-metal profiles (14) which are bent in an L-shaped manner in each case.

21: 2020/05742. 22: 16/09/2020. 43: 2021/07/07
51: A23N; A61K; B30B

71: XU, Chao

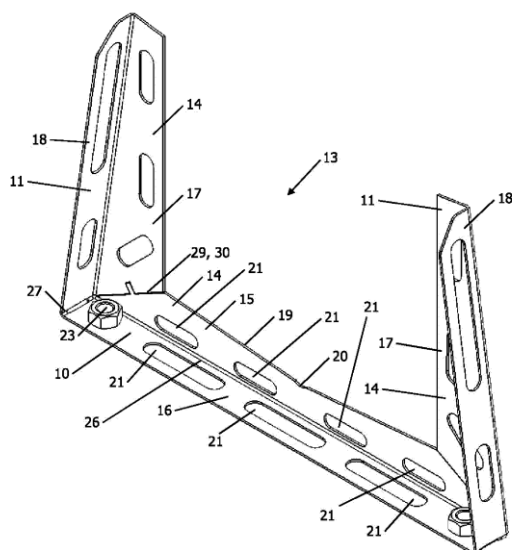
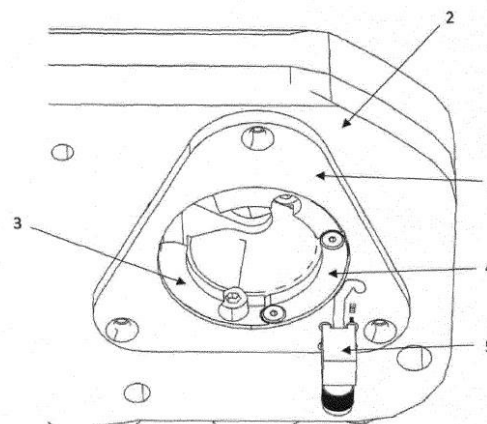
72: XU, Chao

33: US 31: 62/647,306 32: 2018-03-23

54: PORTABLE HEATED PRESS

00: -

A portable heated press device is disclosed that has an upper and lower member, each having an electrically heated platen, hingedly attached to one another near the platens. The lever design allows for multiplying the force applied to the member. An insulator ring is used to thermally insulate the heat from the platens from the handles of the device. The device can include a locking mechanism at the end opposite the platens to apply and maintain pressing force at the platens. The device can also be opened to 180 degrees to allow one platen to be used as a hot plate.

Abbildung 1
AA

AA Figure

21: 2020/05753. 22: 16/09/2020. 43: 2021/07/02

51: B23K; G06K; H01Q

71: BRÄUER SYSTEMTECHNIK GMBH

72: Frank SONNTAG

33: DE 31: 10 2018 003 123.4 32: 2018-04-17

54: ARRANGEMENT FOR MONITORING TOOLS DURING THE MACHINING OF ROTATIONALLY SYMMETRICAL WORKPIECES

00: -

The invention relates to the use of a multiturn antenna (1) and an RFID system for monitoring tools (3) during the machining of rotationally symmetrical workpieces, wherein a multiturn antenna (1) is arranged on a tool carrier (2) close to a rotationally symmetrical tool (3) in such a way that the multiturn antenna (1) surrounds the rotationally symmetrical tool (3), and said rotationally symmetrical tool (3) carries an RFID transponder (4). Said RFID transponder (4) is arranged in its position on the rotationally symmetrical tool (3) in such a way that it is located in the electromagnetic ring field of the multiturn antenna (1), and that the multiturn antenna (1) is arranged on the tool carrier (2) in such a way that a query of the RFID transponder (4) on the rotationally symmetrical tool (3) is possible in every position during movement and during idleness.

21: 2020/05768. 22: 2020/09/17. 43: 2021/06/22

51: A61K

71: AgeneBio, Inc.

72: GALLAGHER, Michela, ROSENZWEIG-LIPSON, Sharon, MELSOPP, Elsie, JAMES, Jack Lawrence, PAYIE, Kenneth Garry

33: US 31: 62/165,812 32: 2015-05-22

54: EXTENDED RELEASE PHARMACEUTICAL COMPOSITIONS OF LEVETIRACETAM

00: -

This invention relates to novel extended release pharmaceutical compositions of levetiracetam and preparations and characterizations thereof. This invention further relates to using these extended release pharmaceutical compositions of levetiracetam for the treatment of cognitive impairment associated with central nervous system (CNS) disorders in a subject in need or at risk thereof.

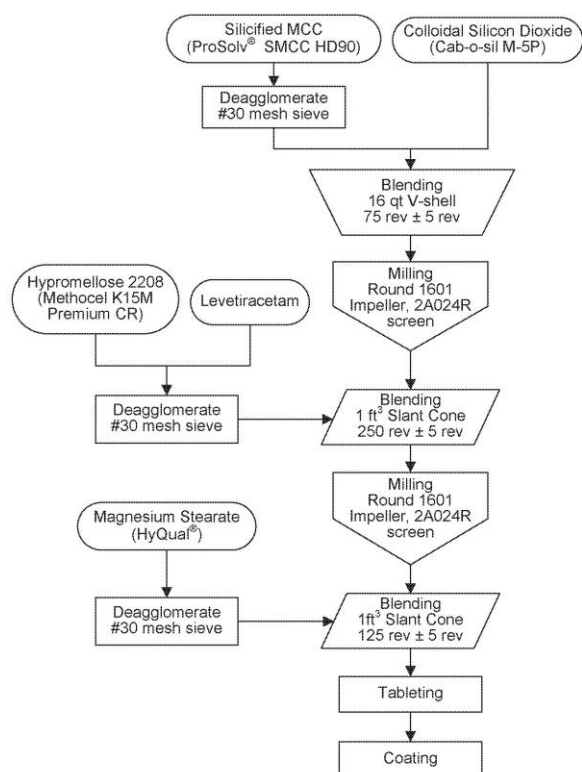


Figure 1

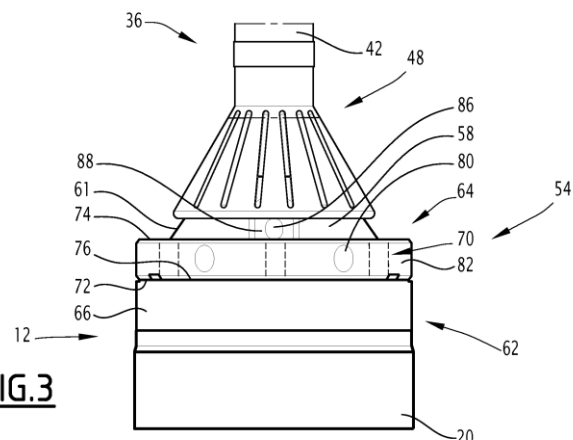


FIG. 3

21: 2020/05798. 22: 18/09/2020. 43: 2021/07/16
 51: H04W
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: LIU, Jianhua, YANG, Ning
 33: WO 31: PCT/CN2018/082099 32: 2018-04-06
54: WIRELESS COMMUNICATION METHOD, TERMINAL, AND NETWORK DEVICE
 00: -

Embodiments of the present application provide a wireless communication method and a device. Parameters occupying more bits and/or more parameters can be transmitted in a random access process. The method comprises: a terminal sends a first message to a network device, the first message being a message 3 MSG3 in a random access process, wherein the first message carries a part of information in a first parameter; the terminal receives a response message sent by the network device for the first message, the response message being a message 4 MSG4 in the random access process.

300

A terminal sends a first message to a network device, and the first message is a message 3 (MSG3) in a random access process and the first message carries partial information in a first parameter 310

The terminal receives a response message sent by the network device responsive to the first message, and the response message is a message 4 (MSG4) in the random access process 320

FIG. 3

21: 2020/05804. 22: 18/09/2020. 43: 2021/07/07
 51: A01N
 71: BIOVECBLOK S.R.L., PALERMO, Vincenzo
 72: DAMIANI, Claudia, SERRAO, Aurelio, VALZANO, Matteo, ARIGONI, Riccardo, CUTERI, Vincenzo

21: 2020/05771. 22: 17/09/2020. 43: 2021/07/07
 51: G21C

71: FRAMATOME

72: BRENIN, Christian, POLIER, Denis, CAHOUE, Laurent, CEDAT, Denis
 33: FR 31: 1852975 32: 2018-04-05

54: NUCLEAR REACTOR AND CORRESPONDING MAINTENANCE METHOD

00: -

The invention relates to a nuclear reactor comprising: - guide tubes (12); - vessel head penetrations (22) each comprising a tubular adapter (24) fixed in one of the openings (2a) and defining an inner passage (34), each vessel head penetration (22) also comprising a tubular sleeve (36) engaged in the inner passage (34) and axially extending in line with one of the guide tubes (12); each sleeve (36) being suspended by an upper axial sleeve end (38) lying on an upper range (40) on the corresponding adapter (24); a lower axial end (48) of the sleeve (36) projecting axially into the vessel (1) beyond the adapter (24) and being separated from an upper axial end (54) of the corresponding guide tube (12) by an axial gap having an axial height of less than 50 millimeters.

33: US 31: 15/926,434 32: 2018-03-20

54: NATURAL MOSQUITO LARVICIDE

00: -

Larvicide and pupicide formulation and methods of administration thereof, harmless for humans and other animals, able to kill all the instars larval stages and pupae in about two hours and fifteen minutes, respectively, with no impact on the environment. Larvicide/pupicide formulation and methods of administration thereof for killing larvae and pupae of *Anopheles gambiae* and *An. stephensi*, main vectors of malaria, and *Aedes aegypti* and *Ae. albopictus*, main vectors of dengue, Zika virus, chikungunya and yellow fever.

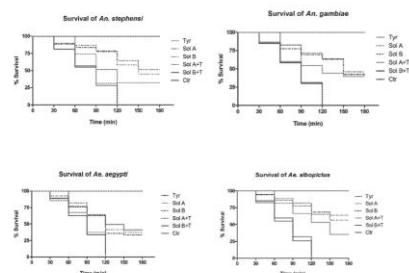


Fig. 1: Survival tests of the four mosquito species *An. stephensi*, *An. gambiae*, *Ae. aegypti* and *Ae. albopictus* treated with different formulations.

21: 2020/05859. 22: 2020/09/22. 43: 2021/07/07
51: B23P

71: Zhengzhou Research Institute of Mechanical Engineering Co., Ltd.

72: WANG, Tao, LIU, Hua, LIU, Baixuan, LIU, Guanghui, ZHANG, Yishuai

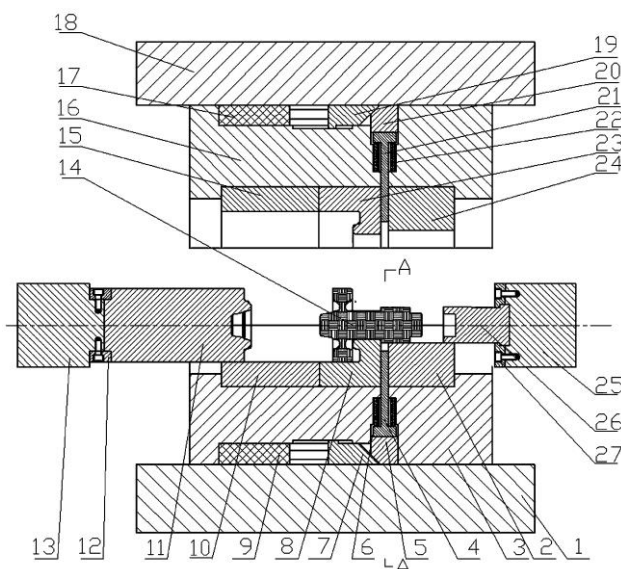
33: CN 31: 201910910235 7 32: 2019-09-25

54: PRECISION FORMING DEVICE PRODUCING LONG SHAFT GEAR HAVING BOSS

00: -

The present disclosure provides a precision forming device producing a long shaft gear having a boss, the precision forming device comprising an upper closing mold assembly, a lower closing mold assembly, a left extrusion mold assembly and a right extrusion mold assembly which are mounted on a four-directional forming press; in the present disclosure, forging stock of a long shaft gear having a boss can be integrally formed by single-pass hot forging, and the spoke and the boss of the long shaft can be formed simultaneously, thus, the device overcomes the problem of difficult demolding of forgings and avoids drawbacks of separate forming

or multi-pass forming; through this device, the spoke portion can be formed, a reasonable forging flow line distribution is maintained, the mechanical performance of this part can be effectively improved, and at the same time, flashless forging of this part is realized, wherein the metallic material can be saved and the material utilization ratio can be increased, moreover, the machining allowance of forging products is small, and the subsequent machining costs are reduced.

21: 2020/05903. 22: 23/09/2020. 43: 2021/07/08
51: G02B

71: INSTITUTE OF FLEXIBLE ELECTRONICS TECHNOLOGY OF THU, ZHEJIANG

72: Xue FENG, Baicheng ZHANG, Ying CHEN, Haoran FU, Ye JIANG, Lanlan LIU

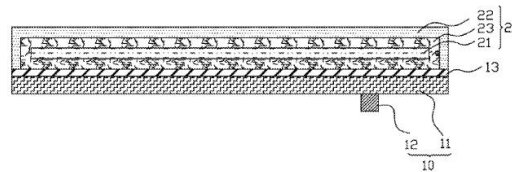
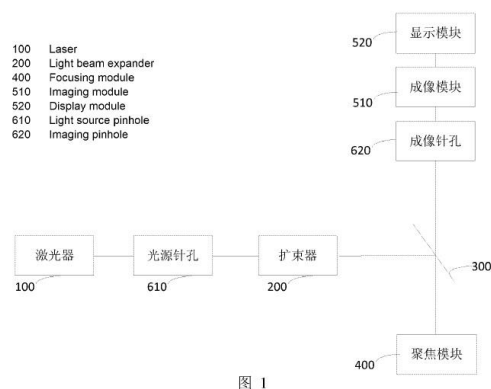
33: CN 31: 201810552110.7 32: 2018-05-31

54: LASER TRANSFER PRINTING DEVICE AND METHOD

00: -

A laser transfer printing device and method. The device comprises: a laser (100), a beam expander (200), a beam splitter (300), and a focusing module (400); the laser (100) is used for generating a laser beam; the beam expander (200) is disposed on an optical path of the laser beam generated by the laser (100) so as to expand the laser beam generated by the laser (100); the beam splitter (300) is disposed on an optical path of the laser beam expanded by the beam expander (200) so as to enable the expanded laser beam to be reflected and then enter the focusing module (400); the focusing module

(400) is disposed on an optical path of the laser beam reflected by the beam splitter (300) so as to focus the laser beam and project the focused laser beam to a predetermined transfer printing processing position. By using the focused laser beam to perform transfer printing, the area irradiated by the laser beam is reduced, the range of thermal diffusion is reduced, the influence on other peripheral devices is further reduced, and high-precision selective transfer printing is achieved.



21: 2020/05922. 22: 25/09/2020. 43: 2021/07/07

51: A61M; F16L

71: BIO PURE TECHNOLOGY LIMITED

72: SILLITOE, Chris, WHITE, Nick

33: GB 31: 1806906.2 32: 2018-04-27

54: A CLAMP

00: -

A clamp (2) comprising: a first arcuate portion (4a); a second arcuate portion (4b) connected to the first arcuate portion via a hinge; and a ratchet mechanism for locking the first and second arcuate portions in a closed position; wherein the first and second arcuate portions each comprise a circumferential groove (16a, 16b) which tapers in a radial direction from an opening of the groove to a base of the groove; wherein the groove of one of the first and second arcuate portions (4a, 4b) has an angular extent which exceeds 180 degrees and has an opening with a width w_1 , w_2 , w_3 which is narrower at opposing ends of the groove than at a position partway between the ends.

21: 2020/05919. 22: 25/09/2020. 43: 2021/07/08

51: A61B; G01K

71: INSTITUTE OF FLEXIBLE ELECTRONICS
TECHNOLOGY OF THU, ZHEJIANG

72: Yan ZHANG, Honghong SU

33: CN 31: 201821741349.0 32: 2018-10-25

54: PREHEATED THERMOMETER

00: -

Provided in the present application is a preheated thermometer, comprising a body temperature measuring part and a preheating part fixed to the body temperature measuring part; the preheating part comprises a heating material and a sealing film covering the exterior of the heating material. The preheated thermometer may quickly raise the temperature of the thermometer to a target temperature so that the time for a flexible thermometer to measure body temperature is greatly shortened, which facilitates examination by a doctor and the diagnosis of diseases.

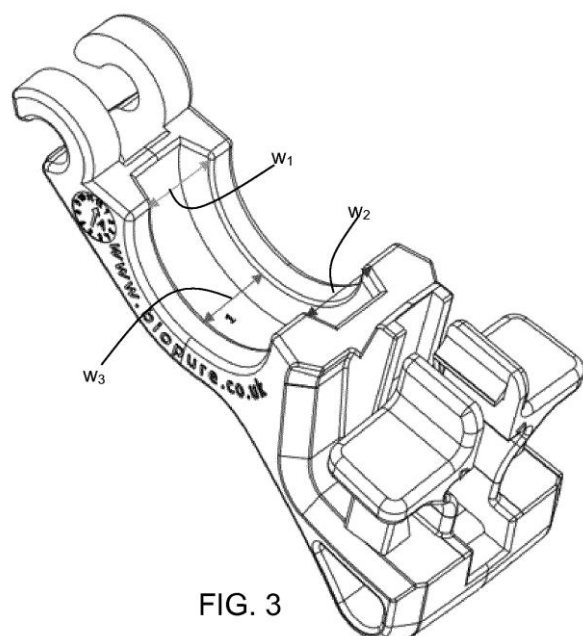


FIG. 3

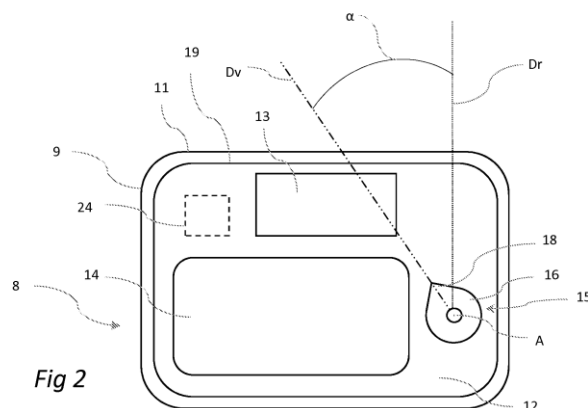


Fig 2

21: 2020/05962. 22: 28/09/2020. 43: 2021/07/08

51: E21B; E21D

71: MONTABERT

72: DROUAUD, Charlotte

33: FR 31: 1853143 32: 2018-04-11

54: DEVICE FOR CONTROLLING A BORING ACCESSORY, EQUIPPED WITH AN ANGLE MEASUREMENT DEVICE

00: -

The invention relates to a control device (8) designed to remotely control a boring accessory mounted on a support arm of a carrier machine, said control device (8) comprising a control housing (9) and an angle measurement device (15) comprising a rotating body (16) which is mounted on the control housing (9) such that it rotates about an axis of rotation (A), the rotating body (16) being provided with an aiming device (18) and the angle measurement device (15) being designed to measure a predetermined angle (α) between a reference angular position of the rotating body (16) and a selected angular position of the rotating body (16) in which the aiming device (18) points towards an aiming point selected by an operator.

21: 2020/05963. 22: 28/09/2020. 43: 2021/07/07

51: A01D; A01G; G06Q

71: AGRI TECHNOVATION (PTY) LTD

72: BIJCKER, Albert Hendrik

33: ZA 31: 2018/01375 32: 2018-02-28

54: PRODUCE HARVESTING APPARATUS AND PRECISION FARMING SYSTEM

00: -

This invention relates to a precision agriculture produce harvesting system and produce harvesting apparatus configured for integration with the system, an essential feature of which is a harvesting device subsystem (100) that includes a harvesting device, for instance pruning shears (102) and a harvesting separation stroke detector (108) housed within a control module housing (110) mounted to the shears (102). A person operating the pruning shears (102) produces discernible separation strokes when the handles (104) of the shears (102) are squeezed together to produce a shearing action. The stroke detector (108) detects the separation strokes of the shears (102). By the addition of the control module (108) to the pruning shears (102), the shears are essentially converted into a data logging device by means of which important aspects of a produce harvesting process can be digitised and supplied to a harvest data digital data processing system.

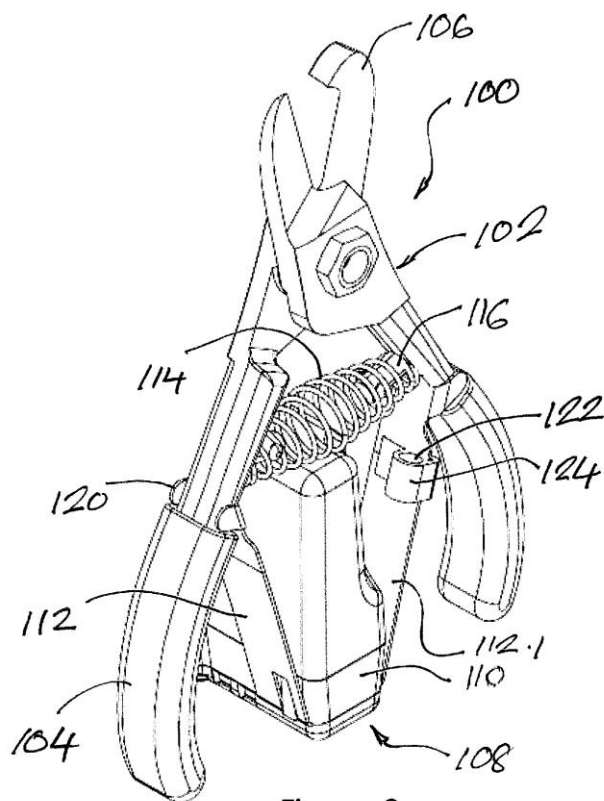
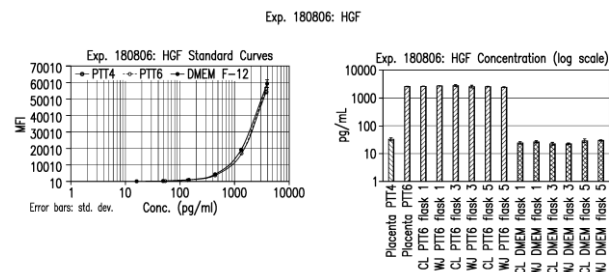


Figure 2

21: 2020/05967. 22: 28/09/2020. 43: 2021/07/08
 51: A61K; C12N; A61P
 71: CELLRESEARCH CORPORATION PTE. LTD.
 72: PHAN, Toan Thang, TAN, Gavin
 33: US 31: 62/656,531 32: 2018-04-12
54: A METHOD OF INDUCING OR IMPROVING WOUND HEALING PROPERTIES OF MESENCHYMAL STEM CELLS

00: -

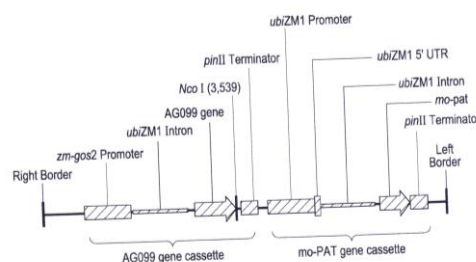
The present invention relates to a method of inducing or improving wound healing properties of a mesenchymal stem cell population, the method comprising cultivating the mesenchymal stem cell population in a culture medium comprising DMEM (Dulbecco's modified eagle medium), F12 (Ham's F12 Medium), M171 (Medium 171) and FBS (Fetal Bovine Serum). The invention also relates to a mesenchymal stem population, wherein at least about 90 % or more cells of the stem cell population express each of the following markers: CD73, CD90 and CD105 and lack expression of the following markers: CD34, CD45 and HLA-DR. The invention also relates to a pharmaceutical composition of this mesenchymal stem population.



21: 2020/05980. 22: 28/09/2020. 43: 2021/07/07
 51: A01H; C12N; C12Q
 71: PIONEER HI-BRED INTERNATIONAL, INC.
 72: CHRISTENSEN, Heather Marie, COLES, Nathan David, DANILEVSKAYA, Olga, HABBEN, Jeffrey, RUPE, Mary A., SCHUSSLER, Jeffrey R., SHEN, Bo, WEERS, Benjamin P., WU, Jingrui
 33: US 31: 62/659,579 32: 2018-04-18
 33: US 31: 62/741,529 32: 2018-10-04
54: GENES, CONSTRUCTS AND MAIZE EVENT DP-202216-6

00: -

The compositions and methods disclosed relate to DNA compositions, plant cells, seeds, plant parts that relate to maize plants with increased grain yield trait. Also provided are assays for detecting the presence of the maize DP-202216-6 event based on the DNA sequence of the recombinant construct inserted into the maize genome and the DNA sequences flanking the insertion site. Kits and conditions useful in conducting the assays are provided.



21: 2020/05983. 22: 28/09/2020. 43: 2021/07/07
 51: B65G
 71: JOY GLOBAL UNDERGROUND MINING LLC
 72: CRESSMAN, Toby, J., MARBURGER, Andrew, N.
 33: US 31: 62/639,000 32: 2018-03-06
54: SAFETY PULL CORD FOR A CONVEYOR

00: -

A conveyor system includes a flexible conveyor train configured to move along a path, a controller, and a

safety actuator supported on the conveyor train. The conveyor train includes a first end, a second end, a continuous belt for transporting material along a length of the conveyor train, and at least one motor for driving the continuous belt. The controller is in communication with the motor to control operation of the conveyor train. The safety actuator includes a retractor, a trip switch electrically coupled to the controller, and a cord having a first end and a second end. The first end is coupled to the retractor, and the second end is coupled to the trip switch.

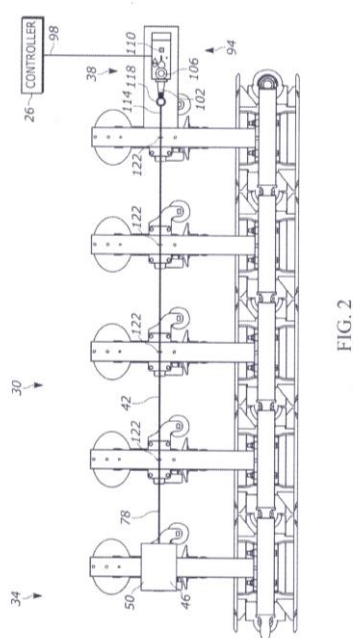
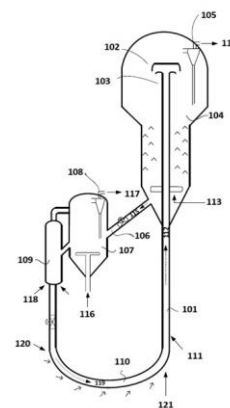


FIG. 2

disposed downstream to the regenerator (106). The apparatus (100) includes a transfer line (110) to receive hot regenerated catalyst free of oxygen from the withdrawal well, and to pre-treat the catalyst with a reducing gas to regulate -oxidation state of metals on the catalyst before reintroducing the catalyst to the riser-type reactor (102). The transfer line (110) is formed in an elongated U-shaped pipe such that the oxidation state of the metals on the catalyst is regulated by the time the pre-treated catalyst reaches the bottom of the riser-type reactor (102).



21: 2020/06004. 22: 2020/09/29. 43: 2021/07/08
51: B01J; C07C; C10G; F23C
71: INDIAN OIL CORPORATION LIMITED
72: DOOSA, Hima Bindu, THAKUR, Ram Mohan, NATH, Vineeth Venu, MUKTHIYAR, Sadhullah, SAU, Madhusudan, BHATTACHARYYA, Debasis, KAPUR, Gurpreet Singh, RAMAKUMAR, Sankara Sri Venkata
33: IN 31: 201921048665 32: 2019-11-27

54: APPARATUSES FOR DEHYDROGENATION OF ALKANES

00: -

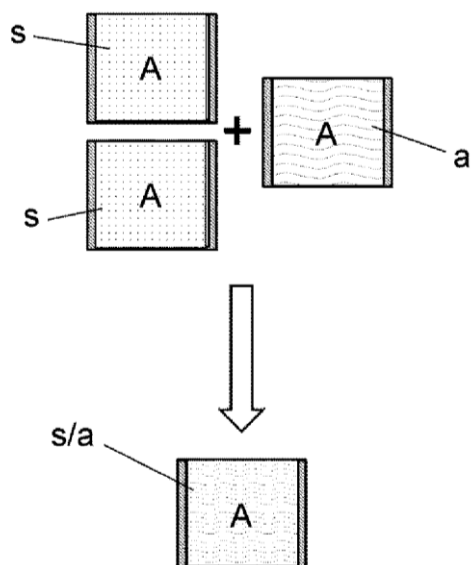
The present disclosure relates to circulating fluidized bed apparatuses (100, 200, 300) for dehydrogenation of alkanes to alkenes with higher yield and selectivity. The apparatus (100) includes a riser-type reactor (102), a separator section (104), a regenerator (106) and a withdrawal well (108)

21: 2020/06033. 22: 29/09/2020. 43: 2021/07/08
51: B01J; C01B
71: BUSINESS RESEARCH AND DIAMONDS, S.L.
72: REIGOSA RODRIGUEZ, Alvaro
33: ES 31: P 201830196 32: 2018-03-01
54: METHOD FOR OBTAINING SYNTHETIC DIAMONDS FROM SUCROSE AND DEVICE FOR CARRYING OUT SAID METHOD

00: -

The invention relates to a method for obtaining synthetic diamonds from sucrose, and to a device for carrying out said method, the method comprising: introducing sucrose or a solution of water and sucrose into a hermetic capsule (7) without air, which is surrounded by an external container that keeps the volume of the capsule (7) constant during the entire process; increasing the pressure inside the capsule (7) by breaking down the sucrose inside the capsule (7), either by increasing the temperature or by combining the sucrose with sulfuric acid, until the carbon resulting from said pressure conditions of the capsule is transformed into diamond; and controlling the pressure generated inside the capsule (7), using containing means that apply pressure externally around the container of the

capsule (7). In addition, extra carbon is added, increasing the dimensions of the diamond.



21: 2020/06246. 22: 08/10/2020. 43: 2021/07/16
51: B29B; B29C

71: LOHIA CORP LIMITED

72: LOHIA, Siddharth

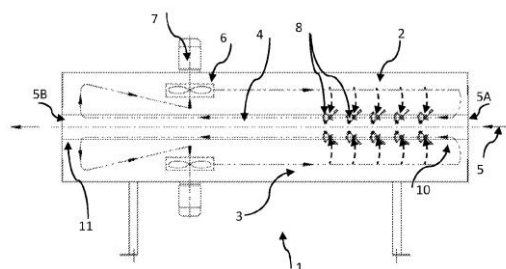
33: IN 31: 201811040635 32: 2018-11-19

54: APPARATUS AND METHOD FOR THERMAL TREATMENT OF MOVING WEB STRIPS

00: -

The present invention relates a hot air circulating chamber with air-flow control system used in manufacture of thermo-plastic products such as monofilament, plastic web strips, narrow film strip, multi-filament. Conventional systems do not allow controlling temperature and air-flow in hot air channel/chamber to achieve uniformity. With the increased production speed and stringent product requirements, improved air-flow uniformity and temperature precision in the hot air oven is necessary. Invention discloses an apparatus (1) provided with air-flow path having provision of number of fans (7), optimisation of heater (6) location and increased number of air-flow regulators (8) having control levers (9). Moving web strips (5) enter apparatus into a hot air channel (4) formed between upper chamber (2) and lower chamber (3). Entry point of moving strips into the hot air channel (4) is the web-strip inlet (5A). After getting heat

treated, the moving web strips (5) leave the apparatus through the web strip outlet (5B).



21: 2020/06279. 22: 2020/10/09. 43: 2021/07/15
51: B65D

71: ENERGIDROP (PTY) LTD

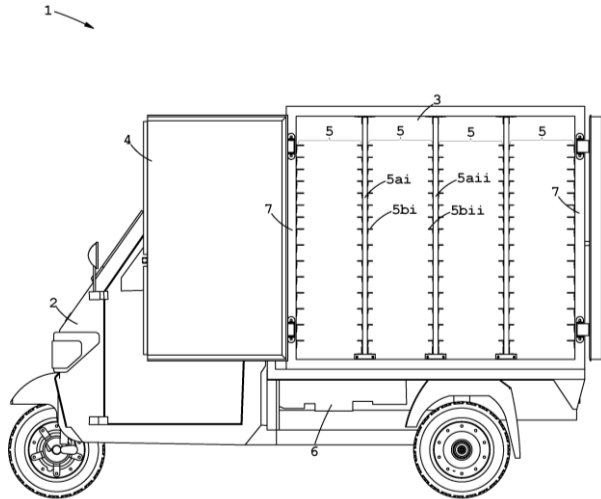
72: BOSHOFF, Darius Roland Kunz, FINCHER, Jeremy Home Carman

33: ZA 31: 2019/04513 32: 2019-07-10

54: CONTAINER FOR TRANSPORTING PACKAGES

00: -

This invention relates to a container for transporting packages with a delivery vehicle and more specifically, but not exclusively, to a heated container for transporting packages containing food with a delivery vehicle. In accordance with the invention there is provided a container for transporting packages with a delivery vehicle comprising an inner cavity with a closable opening providing access to the inner cavity, attachment means for attaching the container to a vehicle, package engaging formations in the cavity, and heating means for heating at least part of the cavity. It is envisaged that the invention will provide a container for transporting packages containing food with a delivery vehicle which keeps the food at the desired temperature for extended periods of time.



21: 2020/06288. 22: 09/10/2020. 43: 2021/07/15

51: A63H; B65D

71: PRIESCHL, Marco

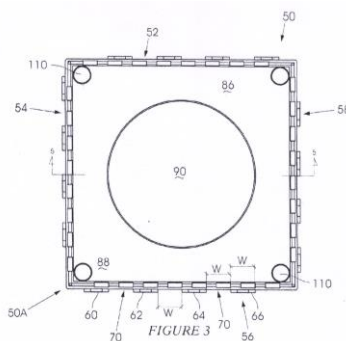
72: PRIESCHL, Marco

33: ZA 31: 2018/02629 32: 2018-04-20

54: STORAGE APPARATUS

00: -

A collapsible container which is made from at least five interconnected panels each of which is square with projections on each side which have passages through which hinge pins are passed to secure the panels together.



21: 2020/06312. 22: 12/10/2020. 43: 2021/07/14

51: C12Q; G01N

71: LONGHORN VACCINES & DIAGNOSTICS, LLC

72: DAUM, Luke T., FISCHER, Gerald W.

33: US 31: 62/660,402 32: 2018-04-20

54: RAPID METHODS FOR THE DETECTION OF MICROBIAL RESISTANCE

00: -

The invention is directed to methods, kits, compositions for the detection of microbial resistance in bacteria, viruses, parasites, fungus, and other microbes. The methods of the invention are both rapid and inexpensive thereby allowing for appropriate treatment of large numbers of individual patients.

21: 2020/06313. 22: 12/10/2020. 43: 2021/07/14

51: G21C

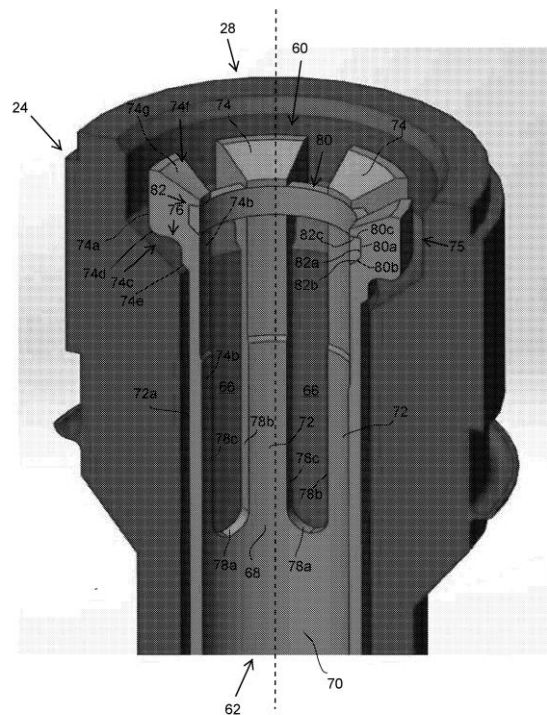
71: FRAMATOME INC.

72: MARKHAM, Wade, MELCHER, Ryan

54: METHOD AND DEVICE FOR REPLACING SLEEVES LINING NUCLEAR REACTOR PRESSURE VESSEL TUBES

00: -

A method for restraining a sleeve (26) lining a tube (12) passing through a nuclear reactor pressure vessel (10) is provided. The method includes attaching in situ a radial protrusion (74) on an external surface of the sleeve; and attaching a collar to an end of the tube and coupling the radial protrusion with the collar to retain the thermal sleeve in position.



21: 2020/06404. 22: 2020/09/22. 43: 2021/07/09
51: C01F

71: Huangshan University

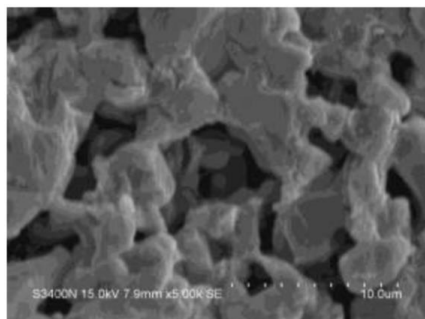
72: Liangqing Li, Jiajia Li, Liangsong Li

33: CN 31: 202010237389.7 32: 2020-03-30

54: METHOD FOR SYNTHESIZING HIGH-QUALITY INORGANIC FILM BY MICROWAVE HEATING

00: -

The present invention discloses a new method for synthesizing a high-quality inorganic film by microwave heating, which relates to the field of preparation of inorganic materials. The method for synthesizing a high-quality inorganic film by microwave heating in the present invention allows a fine design and control of the temperature increase process during microwave heating, wherein the matrix and the synthesis solution is put into the microwave reactor at first, the temperature interval between the initial temperature and the target temperature of the synthesis solution is then divided into multiple sections, each of which sets a temperature increase rate, and then when the temperature reaches the target temperature after the designed temperature increase process, the synthesis solution reacts for a period of time at the target temperature, finally the high-quality inorganic film can be obtained after the treatment of washing and drying. The inorganic film prepared by the method of the present invention is dense and thin.



21: 2020/06427. 22: 2020/10/16. 43: 2021/07/09
51: F41A

71: CESKA ZBROJOVKA A.S.

72: MALINA, Jaroslav

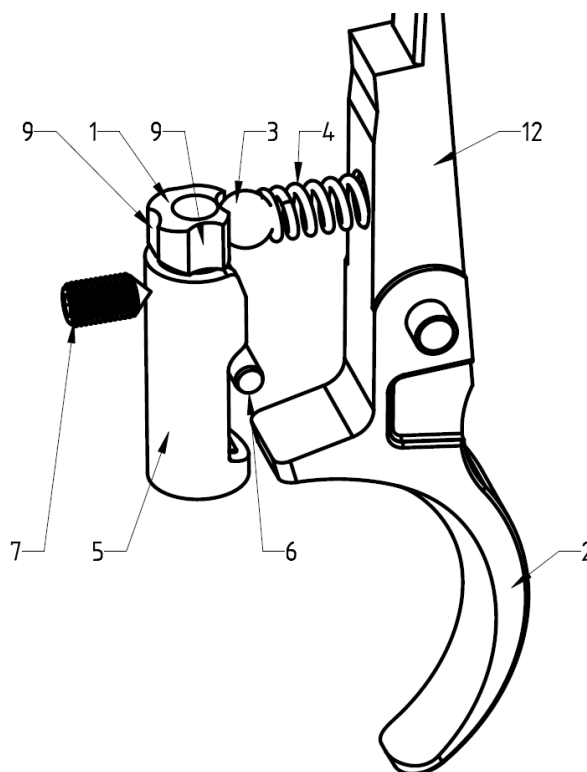
33: CZ 31: PV2019-748 32: 2019-12-06

54: TRIGGER RESISTANCE SETTING MECHANISM

00: -

A trigger resistance mechanism, especially of rifles, comprising a trigger device, containing at least one

class 1 lever (12) whose one arm is adapted to be controlled by the trigger (2) while a trigger (2) resistance spring (4) bears on the other arm. The spring (4) is fitted, at the end averted from the trigger (2), with a bearing element (3) that bears on a cam (1) that is seated in the firearm frame in a rotary way.



21: 2020/06433. 22: 16/10/2020. 43: 2021/07/14
51: C01F; C22B

71: ARAFURA RESOURCES LIMITED

72: ELLIOT, Alexander Dean

33: AU 31: 2018901510 32: 2018-05-03

54: PROCESSING RARE EARTH SULPHATE SOLUTIONS

00: -

A method of processing a purified rare earth sulphate solution, the method including the steps of: contacting the purified rare earth sulphate solution with sodium hydroxide to precipitate rare earths as rare earth hydroxide, including the addition of an oxidant to oxidise cerium contained in the rare earth hydroxide precipitate; and selectively leaching the rare earth hydroxide precipitate with hydrochloric acid to form a rare earth chloride solution and a residue.

21: 2020/06468. 22: 2020/10/16. 43: 2021/07/14

51: B60J

71: CAMERON DUDLEY-OWEN

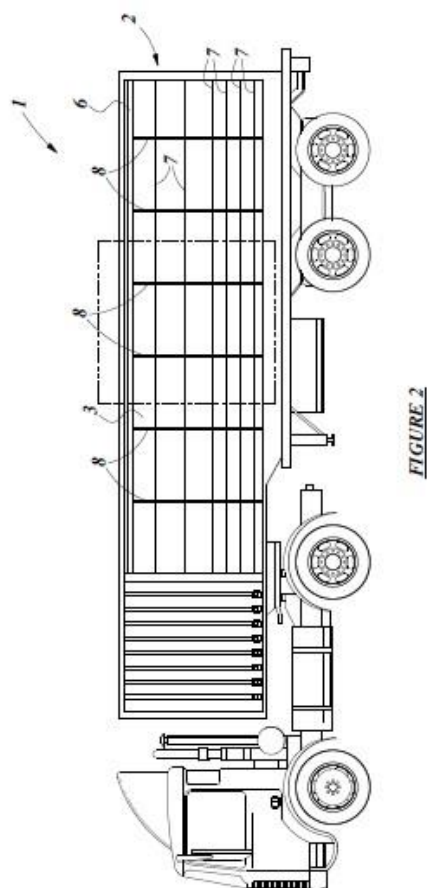
72: CAMERON DUDLEY-OWEN

33: ZA 31: 2019/06866 32: 2019-10-18

54: BARRIER

00: -

This invention relates to a security barrier and more particularly, but not exclusively, to a curtain-type plastics material security barrier for a cargo compartment of a truck or the cargo compartment of a trailer of a truck. There is provided for the barrier to have a flexible sheet with a cable, a major part of the length of the cable extending across an operatively rear surface of the sheet and supported along said surface between a number of supports secured on the rear surface of the flexible sheet.



21: 2020/06470. 22: 2020/10/19. 43: 2021/08/11

51: A24B

71: Anhui University of Science and Technology

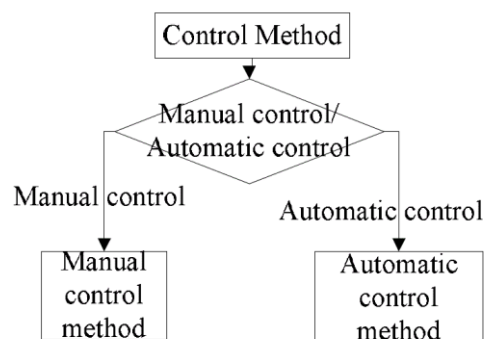
72: CHEN Wei, XU Jun, DENG Haishun, LI Kun, MA Tianbing

33: CN 31: 201911191158.0 32: 2019-11-28

54: A CONTROL METHOD OF AUTOMATIC TEMPERATURE CONTROL TOBACCO LEAF DRYER

00: -

The invention patent is a control method of automatic temperature control tobacco leaf dryer, the control method includes: if the selector switch on the main console is set to manual control, then switch to the manual control method; if the selector switch on the main console is set to Automatic control is transferred to the automatic control method; the tobacco leaf dryer can be monitored through the control method, and the tobacco leaf processing related equipment can be automatically or manually controlled. Real-time collection of multiple tobacco leaf height, temperature, humidity and speed parameters of the feeding belt, crawler belt and discharge pair of the dryer. It has perfect monitoring and protection functions for the automatic temperature control tobacco dryer device, its operation is simple, the function is complete, and the performance is reliable.



21: 2020/06530. 22: 2020/10/21. 43: 2021/07/09

51: A61L; B60H

71: THIBAUD, Hugh, HAMANN, Eric, CREED, Gregory Edward

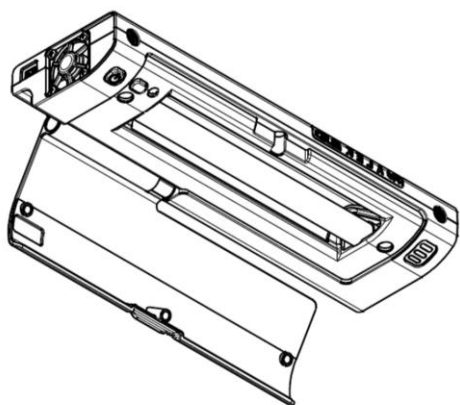
72: THIBAUD, Hugh, HAMANN, Eric, CREED, Gregory Edward

54: VEHICLE INTERIOR SPACE UV DECONTAMINATION SYSTEM

00: -

This invention relates to an enclosed space decontamination system. This decontamination system comprises a housing containing an ultraviolet (UV) subsystem, an air decontamination subsystem and an exposed surface decontamination system.

The UV subsystem comprises an ultraviolet light source mounted within the housing. The air decontamination subsystem includes airflow means having an airflow impeller. The airflow impeller is configured to force the circulation of air from the enclosed space throughout the housing past the UV light source to expose the flowing air to UV radiation radiating from the UV light source. The exposed surface decontamination subsystem comprises means to open the UV light source such that UV radiation from the exposed UV light source can irradiate internal surfaces of the enclosed space when the light is on.



21: 2020/06542. 22: 21/10/2020. 43: 2021/07/09
51: H01M

71: ESTHER: ENERGIE SCIENCES
THERMODYNAMIQUES

72: BIENVENU, Gérard

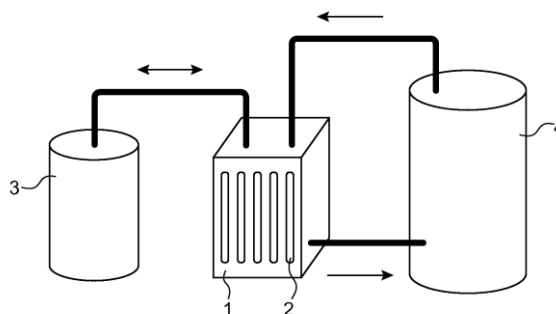
33: FR 31: 1853593 32: 2018-04-24

54: ELECTROCHEMICAL CELL WITH HIGH CAPACITY AND LOW SELF-DISCHARGE

00: -

Disclosed is an electrochemical cell (2) which, in the charged state, comprises a positive electrode, an aqueous electrolyte and a negative electrode, the positive electrode comprising a metal oxide, for example a lead oxide, the negative electrode comprising a support and an active material, the active material of the negative electrode being a metal alloy chosen from a copper-based alloy, a cadmium-based alloy, a nickel-based alloy, a manganese-based alloy, a tin-based alloy, a zinc-based alloy, or an alloy based on cadmium and tin, the electrolyte comprising sulfuric acid and a dissolved active material, in the form of sulfates of

the metals forming the alloy of the active material of the negative electrode, the concentration of sulfuric acid being greater than 100 g/l, and the concentration of dissolved active material ranging from 0 to 400 g/l, and preferably from 0 to 200 g/l.



21: 2020/06591. 22: 22/10/2020. 43: 2021/07/09
51: A61K; A61P

71: THE GEORGE INSTITUTE FOR GLOBAL HEALTH

72: MACMAHON, Stephen, RODGERS, Anthony

33: US 31: 62/703,802 32: 2018-07-26

54: COMPOSITIONS FOR THE TREATMENT OF HYPERTENSION

00: -

Provided herein are pharmaceutical compositions that are useful for the treatment of hypertension comprising an angiotensin II receptor blocker, a diuretic, and a calcium channel blocker.

21: 2020/06620. 22: 23/10/2020. 43: 2021/07/09
51: B60P

71: THE DYNAMIC ENGINEERING SOLUTION PTY LTD

72: NEWSTEAD, Michael, BROWNE, James, FIORINOTTO, Oscar

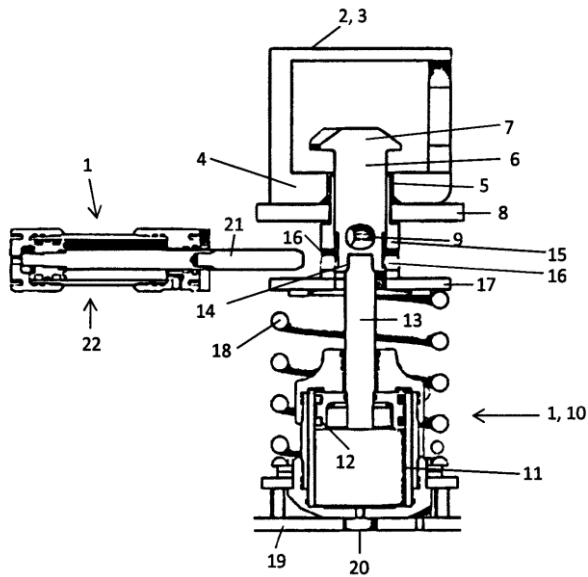
33: DE 31: 10 2018 113 778.8 32: 2018-06-08

54: DEVICE FOR SECURING A CONTAINER ON THE LOADING SURFACE OF A VEHICLE

00: -

The invention relates to a device (1) for securing a container on a loading surface, with a pin (6) and with a lifting drive (10), wherein the pin (6) is rotatable and is displaceable along a longitudinal axis of the pin (6) by means of the lifting drive (10), wherein the pin (6) is secured in a securing position by means of a locking element (21) against rotation and against axial displacement. The device (1) for securing the container is improved by the lifting drive (10) being configured in such a manner that a head

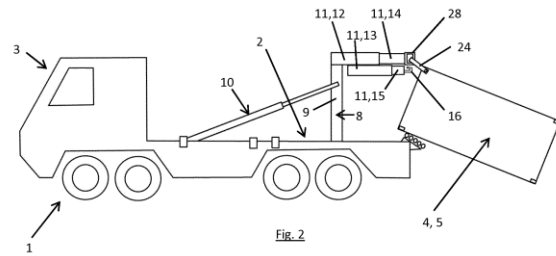
(7) of the pin is displaceable through the elongated hole (5) as far as a first end position, wherein, in the first end position, the head (7) of the pin (6) is spaced apart with axial play relative to the edge of the elongated hole (5), wherein the pin (6) can then be pulled back into a second end position in which the head (7) of the pin (6) lies on the edge of the elongated hole (5).



21: 2020/06621. 22: 23/10/2020. 43: 2021/07/09
51: B60P
71: THE DYNAMIC ENGINEERING SOLUTION PTY LTD
72: NEWSTEAD, Michael, BROWNE, James, FIORINOTTO, Oscar
33: DE 31: 10 2018 113 510.6 32: 2018-06-06
54: LOADING ARM ARRANGEMENT FOR A LOAD CHANGING VEHICLE FOR LOADING ISO CONTAINERS AND FOR LOADING TRANSPORT CONTAINERS HAVING A HOOK

00: -

The invention relates to a loading arm arrangement (8) for a load changing vehicle (1) having a main arm (9) and having an auxiliary arm (11), wherein the loading arm arrangement (8) is designed to unload and load ISO containers (5) and to unload and load transport containers (6) having a hook (7). The loading arm arrangement (8) according to the invention is improved in that a traverse (19) having two corner grippers (24, 25) is arranged on the auxiliary arm (11) in a telescoping manner and, furthermore, a gripping hook (16) is arranged in a separately telescoping manner.



21: 2020/06622. 22: 23/10/2020. 43: 2021/07/08

51: B60P

71: THE DYNAMIC ENGINEERING SOLUTION PTY LTD

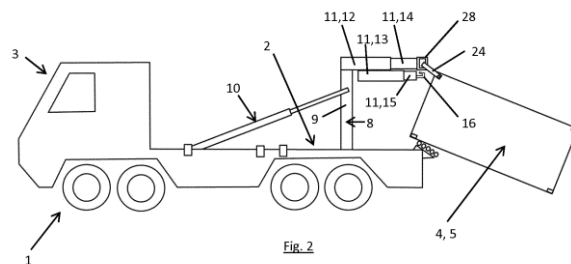
72: NEWSTEAD, Michael, BROWNE, James, FIORINOTTO, Oscar

33: DE 31: 10 2018 113 511.4 32: 2018-06-06

54: LOADING ARM ARRANGEMENT FOR A SWAP BODY VEHICLE

00: -

The invention relates to a loading arm arrangement (8) for a swap body vehicle (1), comprising a main arm (9), an auxiliary arm (11), a cross-member (19) having two corner grippers (24, 25), the auxiliary arm (11) being arranged on the main arm (9) and the cross-member (19) being arranged at the end of the auxiliary arm (11), the corner grippers (24, 25) being arranged in each case at the ends of the cross-member (19). The loading arm arrangement (8) is improved in that the cross-member (19) is pivotable about two axes (48, 49) relative to the auxiliary arm (11).



21: 2020/06648. 22: 26/10/2020. 43: 2021/07/09

51: A47J; B01F

71: Dale Holdings (Pty) Ltd

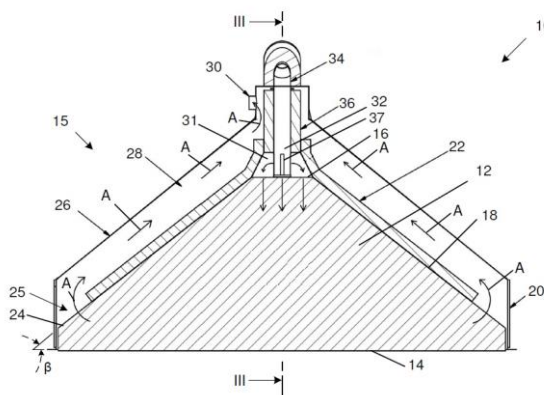
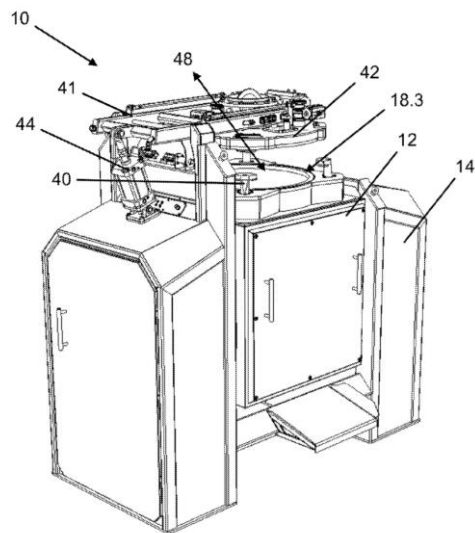
72: DALE, Chris, SWEETING, Adam Keith, GRACE, Darren Leslie

33: ZA 31: 2018/02008 32: 2018-03-27

54: DIRECT DRIVE MIXING DEVICE

00: -

be conveyed through a charged packed bed during a discharge cycle. A barrier extends across at least a major portion of the sloping sides of the packed bed to inhibit the movement of the working fluid therethrough.



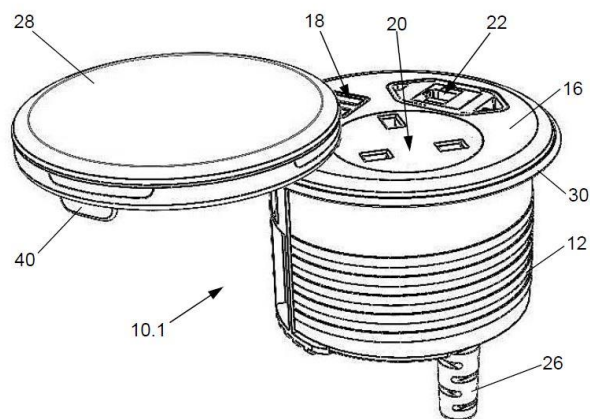
21: 2020/06667. 22: 2020/10/27. 43: 2021/07/08
51: H01R: H02J

71: POWER LOGIC SOUTH AFRICA (PTY) LTD
72: MAZULLO, Adrian, VAN ZYL, Brian
33: ZA 31: 2019/07295 32: 2019-11-04

54: UNIT WITH POWER AND/OR DATA SOCKETS AND WIRELESS CHARGER FOR MOBILE DEVICES

00: -

A unit (10) is can be fitted on a desk top (14) and the unit (10) includes a body (12) and a cover (28). The body (12) is shaped and dimensioned to fit inside a cylindrical aperture in the desk top (14) so that a top (16) of the body (12) is accessible from above the desk top (14). The cover (28) is displaceable between a closed position in which it substantially covers the top (16) of the body (12), and one or more open positions in which it is partly or completely displaced from the top (16) of the body (12), so that the top (16) of the body (12) is accessible. One or more sockets (18,20,22) are provided in the top (16) of the body (12) and a wireless charger is provided inside the cover (28).

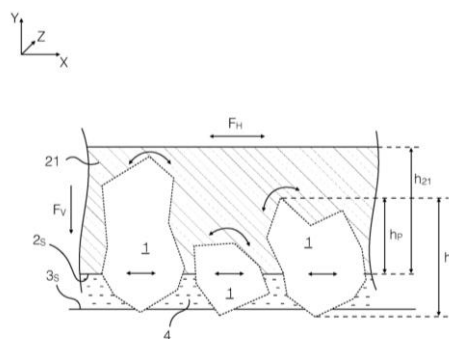


21: 2020/06691. 22: 27/10/2020. 43: 2021/07/09
 51: B24B
 71: MIRKA LTD
 72: SJÖBERG, Tomas, HEDE, Hans, SUNDQVIST, Maria, SUNDELL, Mats
 33: FI 31: 20185541 32: 2018-06-15

54: ABRADING WITH AN ABRADING PLATE

00: -

The disclosed solution comprises a method of abrading the surface of a workpiece. The method comprises providing a workpiece (3), an abrading apparatus (14) with a backing pad (10) configured to receive an abrading plate (2), an abrading plate (2) attachable to the backing pad (10) and slurry (4) comprising abrasive grains (1); attaching the abrading plate (2) to the backing pad (10); providing the slurry (4) comprising abrasive grains (1) between the abrading plate (2) and the surface (3s) of the workpiece (3); and operating the abrading apparatus (14) to abrade the surface (3s) of the workpiece (3). Therein, the abrading plate (2) comprises a workpiece-facing layer (21), which workpiece-facing layer (21) faces the surface (3s) of the workpiece (3) and comprises metal or polymer, and the abrasive grains (1) have a hardness on the Mohs scale of greater than 5.



21: 2020/06744. 22: 2020/10/29. 43: 2021/07/08
 51: C12M

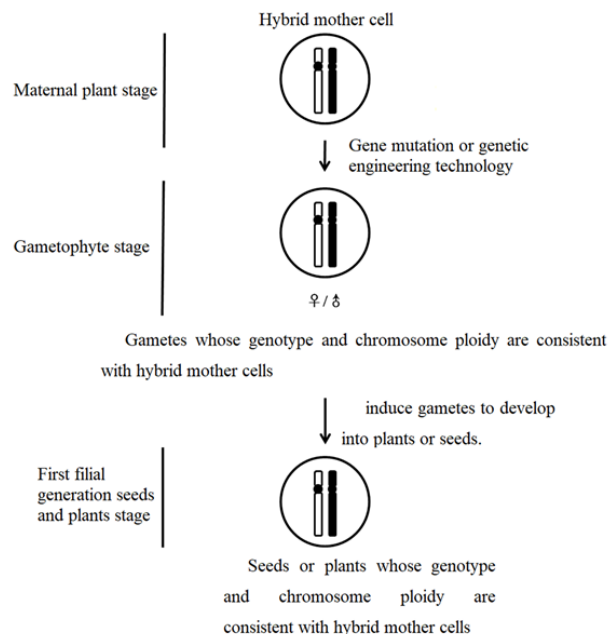
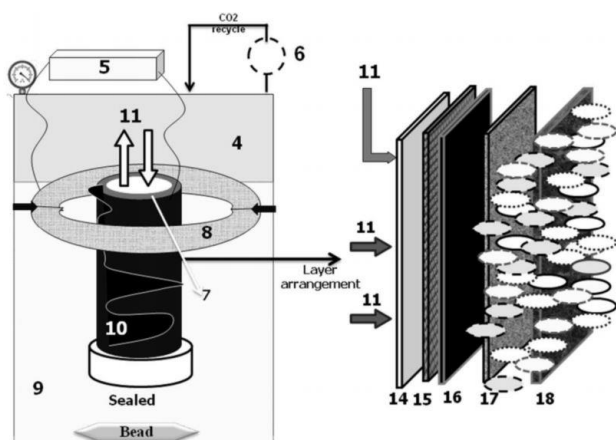
71: INDIAN OIL CORPORATION LIMITED,
 VLAAMSE INSTELLING VOOR TECHNOLOGISCH
 ONDERZOEK NV

72: KUMAR, Manoj, SANDIPAM, Srikanth, PURI,
 Suresh Kumar, RAMAKUMAR, Sankara Sri Venkata,
 DIELS, Ludovicus, BOUWMAN, Lambertus,
 VANBROEKHOVEN, Karolien, PANT, Deepak
 33: IN 31: 201911050001 32: 2019-12-04

54: A MEMBRANE-LESS REACTOR DESIGN AND PROCESS FOR BIOTRANSFORMATION OF CARBON DIOXIDE

00: -

The present invention discloses a membrane-less reactor design for microbial electrosynthesis of alcohols from carbon dioxide (CO₂). The membrane-less reactor design thus facilitates higher and efficient CO₂ transformation to alcohols via single pot microbial electrosynthesis. The reactor design operates efficiently avoiding oxygen contact at working electrode without using membrane, in turn there is an increase in CO₂ solubility and its bioavailability for subsequent CO₂ conversion to alcohols at faster rate. The present invention further provides a process of operation of the reactor for biotransformation of the carbon dioxide.



21: 2020/06748. 22: 29/10/2020. 43: 2021/07/08

51: A01H; C12N

71: CHINA NATIONAL RICE RESEARCH INSTITUTE

72: WANG, Kejian, WANG, Chun

33: CN 31: 201810325528.4 32: 2018-04-12

33: CN 31: 201811205889.1 32: 2018-10-16

54: A METHOD FOR USING PLANT HETEROSIS

00: -

The present disclosure discloses a method for using plant heterosis. The method comprises the following steps: S1, transforming the meiosis of germ cells of hybrids into mitosis-like so as to obtain gametes whose genotype and chromosome ploidy are consistent with hybrids by using gene mutation or gene engineering technology; and S2, influencing and involving in the development of gametes or embryos in plants by using gene mutation and gene engineering technology, wherein a protein involved is MTL protein.

21: 2020/06790. 22: 2020/10/30. 43: 2021/07/08

51: H04M; H04W

71: GREYLING, Eben-Haeser

72: GREYLING, Eben-Haeser

33: ZA 31: 2019/05365 32: 2019-08-14

54: METHOD AND SYSTEM FOR CONTROLLING THE FUNCTIONALITY OF A MOBILE DEVICE

00: -

A method and a system for controlling the functionality of a mobile device are provided. The method includes maintaining a usage register at the mobile device, the usage register having a remaining usage value stored thereon. The usage of the mobile device by a user is monitored, and the remaining usage value at the usage register is progressively reducing based on the usage of the mobile device by the user. The completion of a task by the user is determined. The task has an associated usage credit and is added to the usage register as reward for its completion. At least a subset of the functionality of the mobile device is disabled when the remaining usage value is below a threshold, and at least a subset of the functionality of the mobile device is restored when the remaining usage value is above the threshold.

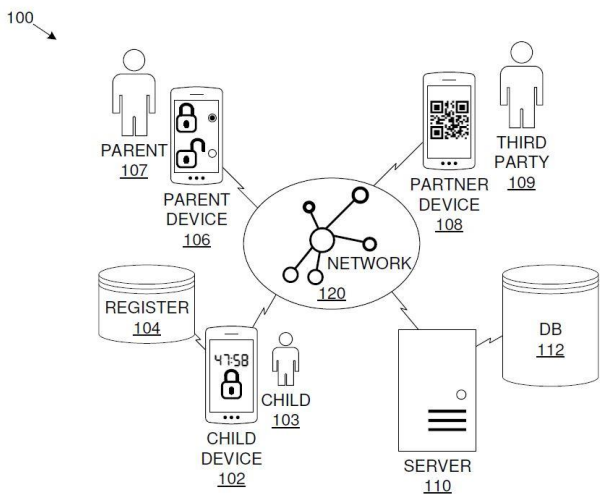


Figure 1

21: 2020/06795. 22: 2020/10/30. 43: 2021/07/08
51: F21L

71: RIXTON, Benita Paula Doria
72: RIXTON, Jamie Alexander, RIXTON, Benita
Paula Doria, RIXTON, Katia Mea Doria

54: LAPTOP STAND

00: -

A laptop stand is provided with a base member having a hinged surround member with a lighting means provided around an extent of the surround member. The laptop stand has an open condition in which the surround member is hinged in an open position with respect to the base member to hold an open laptop on the base member with the surround member disposed around a screen of the laptop, and a closed condition in which the surround member is hinged in a closed position in a planar arrangement with the base member. The lighting means is a non-flickering light source provided in an elongate form along a front surface of the surround member, wherein in the open condition, the lighting means provides illumination around a screen of the laptop.

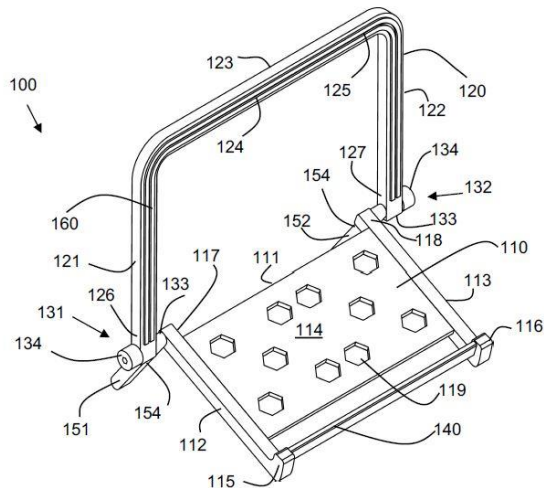


FIGURE 1A

21: 2020/06796. 22: 2020/10/30. 43: 2021/07/08

51: B01J; C02F; C12M; C12P

71: STELLENBOSCH UNIVERSITY

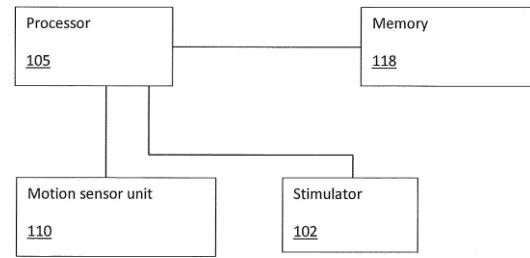
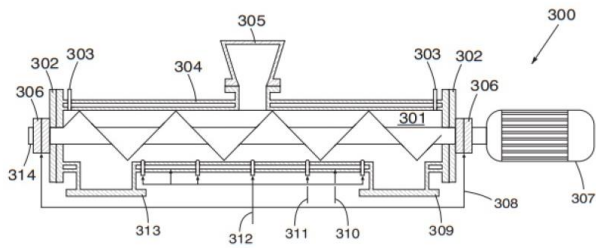
72: GÖRGENS, Johann Ferdinand, DIEDERICKS, Danie, GYURE, Dale, KORSTEN, Steven

33: ZA 31: 2019/07181 32: 2019-10-31

54: SYSTEM AND PROCESS FOR PREPARING A REACTION FEEDSTOCK

00: -

The invention provides a feedstock preparation process for preparing a feedstock for a contaminant sensitive bioprocess. The feedstock preparation process may comprise the following steps: reducing a particulate size of the feedstock, thereby to provide a size-reduced feedstock; at least partially decontaminating the size-reduced feedstock, thereby to provide a decontaminated feedstock; and aseptically transferring the decontaminated feedstock into at least one reaction vessel. The feedstock may comprise a waste product from a paper-making process. The waste product may comprise paper sludge. The bioprocess may comprise a microbial bioconversion reaction adapted to convert sugars to alcohol. The feedstock preparation process may include mixing the feedstock during the decontamination step. The aseptic transfer step may include passing the decontaminated feedstock through an isolation valve means. The invention extends to a feedstock preparation system for preparing a feedstock for a contaminant sensitive bioprocess technology.



21: 2020/06800. 22: 30/10/2020. 43: 2021/07/08

51: A63B; G09B

71: WEST & BERGH HOLDING AB

72: REDGÅRD, Fredrik, NILSSON, Johan

33: EP 31: 18180493.1 32: 2018-06-28

54: REAL TIME GOLF SWING TRAINING AID

00: -

A sports training aid comprising a body unit (110) attachable to a person's body or the person's sports implement wherein the body unit (110) is provided with a positioning sensor module; a feedback stimulator; and a processor. The sports training aid is configured to provide instantaneous feedback on motion faults of a studied sports motion, and the body unit (110) is intended to be attached to a person's body (or a person's sports implement) at a representative location, the location being bound to travel a path representative of the studied sports motion, and the positioning sensor module comprises acceleration sensors and gyro sensors, and the processor is configured to determine a still position corresponding to an event wherein the body unit (110) is determined to be still, and the processor is configured to keep track of the sensor module's movements relative to the still position, and the processor is configured to activate the feedback stimulator in real time, upon detection of a sports motion fault of the studied sports motion of the person as represented by the motion path of the sensor module.

21: 2020/06803. 22: 30/10/2020. 43: 2021/07/08

51: F03D; G01P

71: PROMECON PROCESS MEASUREMENT CONTROL GMBH

72: Hans, Georg CONRADs, Matthias MÄDE

33: DE 31: 10 2018 003 608.2 32: 2018-05-03

54: WIND TURBINE

00: -

The invention relates to a wind turbine for harvesting electric energy, comprising a tower equipped with a rotatable gondola with a rotor which can be rotated about a horizontal rotational axis and which comprises an electric generator. The wind turbine additionally comprises a device for determining the flow direction and the speed of the incident wind and a device for controlling or regulating the alignment of the rotor against the incident wind. For this purpose, the device for determining the speed and the flow direction comprises receiving antenna pairs, by means of which electric signals are obtained using electrically influenced particles or air molecules carried by the incident wind and are supplied to a correlation measurement device. In the correlation measurement device, the time needed by the electrically influenced particles or molecules to traverse the distance between the receiving antennas of a receiving antenna pair is determined. Subsequently, the speed and the flow direction of the wind is calculated in a computing unit and are supplied to the device for controlling or regulating the alignment of the rotor.

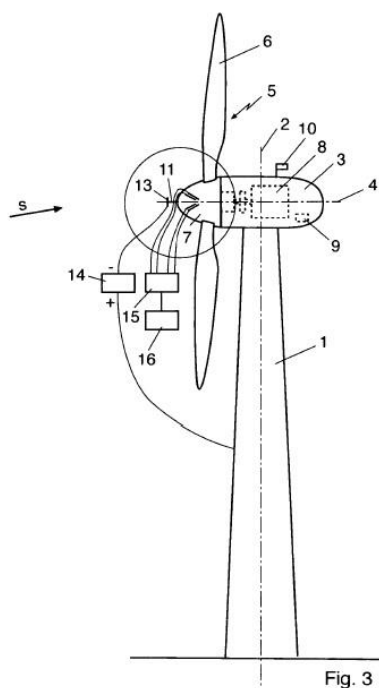


Fig. 3

21: 2020/06805. 22: 2020/02/14. 43: 2021/07/08
51: A47J

71: Jura Elektroapparate AG

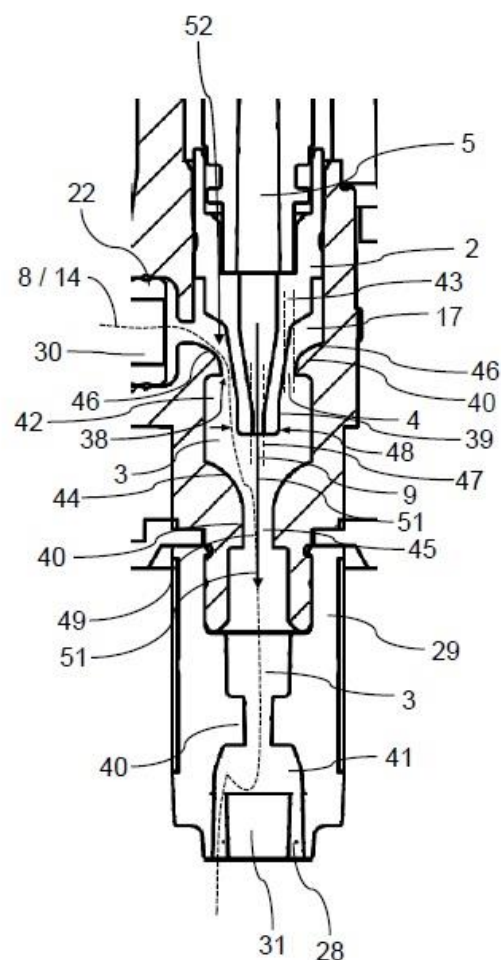
72: SANDRO KLEPZIG

33: EP 31: 19193186.4 32: 2019-08-22

**54: MILK DELIVERY DEVICE FOR A FULLY
AUTOMATED COFFEE MACHINE AND
CORRESPONDING METHOD**

00: -

For a milk conveying device (1) which conveys milk (7) with the aid of a steam stream (9) emitted by a steam nozzle (2) based on the Venturi effect, it is proposed by appropriate alignment of an admixing opening (4) and optionally with the aid of deflection surfaces (46) allow a milk flow (8) sucked in by the steam flow (9) to flow tangentially onto the steam flow (9) in order to ensure the most trouble-free delivery of the milk flow (8) even at very low flow rates of the milk flow (8) to be able to. For this purpose, before the milk stream (8) comes into contact with the steam stream (9), the milk stream (8) is aligned in the direction (51) of the steam stream (9) (see FIG. 11).



21: 2020/06821. 22: 30/10/2020. 43: 2021/07/08
51: A61B; A61M

71: STELLENBOSCH UNIVERSITY

72: FOURIE, Pieter Rousseau, VAN DER MERWE, Tys

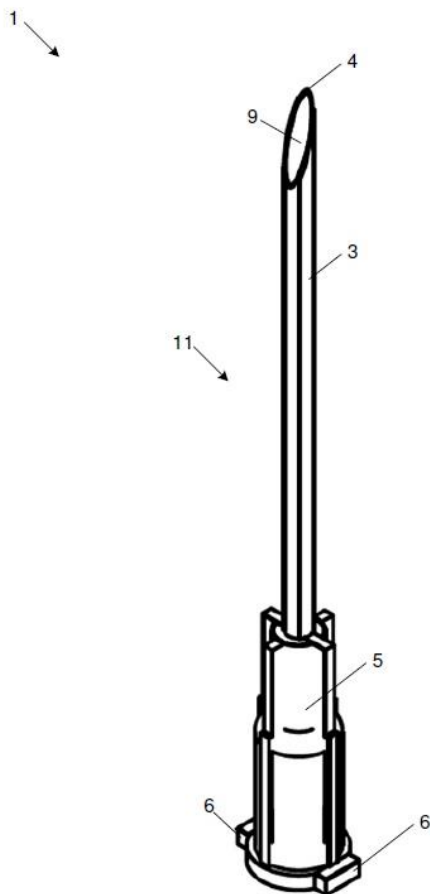
33: ZA 31: 2018/02103 32: 2018-04-03

54: A MEDICAL NEEDLE

00: -

A needle is provided that has terminals located at or near its tip. The terminals are connectable to an impedance calculating circuit configured to enable the impedance calculating circuit to apply an alternating current input electrical signal to the terminals. The terminals are further configured to enable the impedance calculating circuit to measure a resultant electrical signal and calculate an impedance of biological tissue surrounding the tip. The needle may further include light transmitting media, that extends along the needle, and that is connectable to a light circuit. The light circuit may

include an emitter/detector pair for transmitting light from the emitter, along the media, and emitting the light from the tip. A reflection of the emitted light may be transmitted from the tip to the detector and the light circuit may calculate the light absorption of the tissue.



21: 2020/06860. 22: 03/11/2020. 43: 2021/08/04

51: H01M

71: POWERCELL SWEDEN AB

72: MUNTHER, Stefan

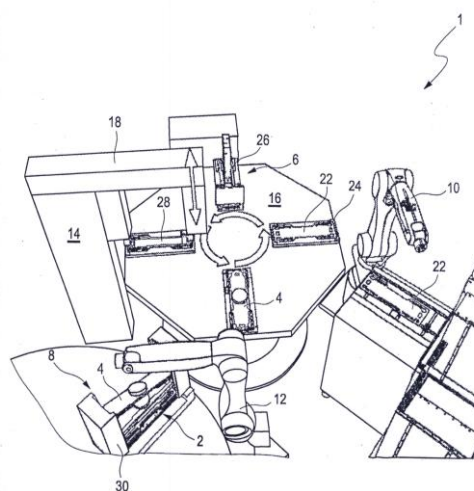
33: SE 31: 1850786-3 32: 2018-06-26

54: MANUFACTURING ARRANGEMENT FOR A FUEL CELL STACK AND METHOD FOR MANUFACTURING A FUEL CELL STACK

00: -

The invention discloses a manufacturing arrangement (1) for a fuel cell stack (2) comprising at least a first alignment station (6) having a first alignment structure (24) for receiving a bipolar plate (22) and a second alignment structure (24) for arranging a membrane electrode assembly (26) at one side of the bipolar plate (22), preferably on top

of the bipolar plate (22), in a predefined orientation for aligning the bipolar plate (22) and the membrane electrode assembly (26), whereby a pre-assembled fuel cell unit (28) is provided; a fastening station (14) for fastening the membrane electrode assembly (26) to the bipolar plate (22), whereby an assembled fuel cell unit (4) is provided; and a second alignment station (8) having at least one third alignment structure (30) for aligning the assembled fuel cell units (4) for providing a fuel cell stack (2), as well as a method for manufacturing a fuel cell stack (2), and a fuel cell stack (2) having been manufactured by means of such an arrangement and/or method.



21: 2020/06861. 22: 03/11/2020. 43: 2021/08/04

51: H01M

71: POWERCELL SWEDEN AB

72: MUNTHER, Stefan

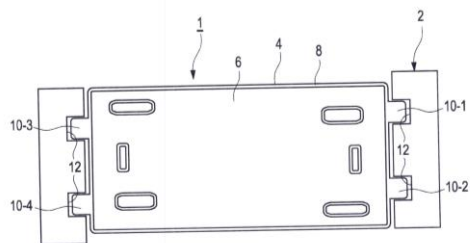
33: SE 31: 1850787-1 32: 2018-06-26

54: MEMBRANE ELECTRODE ASSEMBLY, FUEL CELL STACK WITH MEMBRANE ELECTRODE ASSEMBLY AND ALIGNMENT TOOL FOR FUEL CELL STACK

00: -

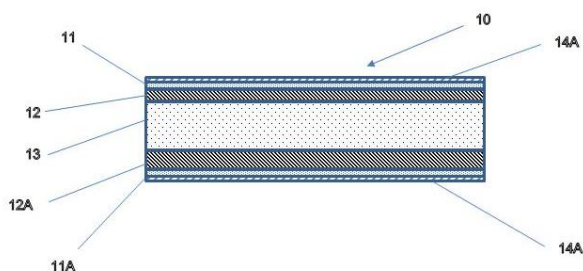
The invention discloses a membrane electrode assembly (4) for a fuel cell stack (16) comprising at least a cathode, an anode and a membrane there-between, wherein the membrane electrode assembly (4) further has a basic shape which substantially resembles the shape of a bipolar plate (6) of a fuel cell unit onto which the membrane electrode assembly (4) is intended to be placed, wherein the membrane electrode assembly (4) further comprises at least one distinctive alignment

projection (10), which protrudes from a circumference of the basic shape and wherein the distinctive alignment projection (10) has a size and/or shape which is adapted to be contacted by an alignment tool (2) for aligning the membrane electrode assembly (4) in the fuel cell stack (16), as well as a fuel cell stack (16) comprising such a membrane electrode assembly (4) and an alignment tool (2) or fuel cell stack housing (2) for aligning and/or housing such a fuel cells stack (16).



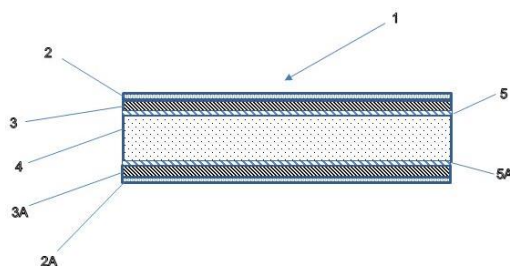
21: 2020/06872. 22: 2020/11/04. 43: 2021/08/04
51: E04G
71: WACO AFRICA (PTY) LIMITED t/a FORMSCAFF
72: ESTERHUYSEN, Eric Carl, JORGE, Tanya Lee, POUWELS, Klaas, MOES, Jan Johannes
33: ZA 31: 2019/07318 32: 2019-11-05
54: PROTECTED SHUTTER BOARD
00: -

The invention relates to a shutter board for use during concrete construction. The shutter board comprises a substantially planar body, having a damage resistant, protective layer over at least one conventional outer (working) surface, the layer characterised in that it comprises a urethane-based material, selected from the group comprising a polyurethane elastomer and a urethane prepolymer, with physical properties of preselected abrasion resistance, tear strength, chemical resistance and temperature compatibility.



21: 2020/06873. 22: 2020/11/04. 43: 2021/08/04
51: E04G
71: WACO AFRICA (PTY) LIMITED t/a FORMSCAFF
72: ESTERHUYSEN, Eric Carl, JORGE, Tanya Lee, POUWELS, Klaas, MOES, Jan Johannes
33: ZA 31: 2019/07319 32: 2019-11-05
54: ENHANCED SHUTTER BOARD
00: -

The invention comprises a shutter board for use during concrete construction. The shutter board has preselected physical and mechanical properties and performance capabilities. The shutter board is preferably manufactured from a laminated composite material, having a damage resistant outer skin, a reinforcing layer, located below the skin, and a core, the board characterised in having a symmetrical structural design, relative to the core, with a second reinforcing layer, located on the exposed planar side of the core, sandwiching the core between the two opposing, reinforcing layers, rendering the composite shutter board reversible for extended usage.

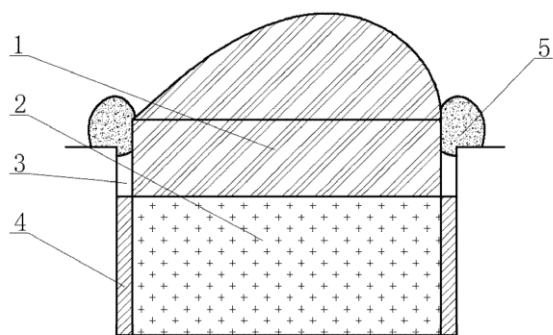


21: 2020/07084. 22: 13/11/2020. 43: 2021/07/15
51: C03B; C03C; H01L
71: SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD
72: ZHANG, Jingmin
33: CN 31: 201910378406.6 32: 2019-05-08

54: HIGH-EFFICIENCY HIGH-ENERGY LIGHT PHOTOELECTRIC CONVERSION MATERIAL AND FABRICATION METHOD THEREFOR

00: -

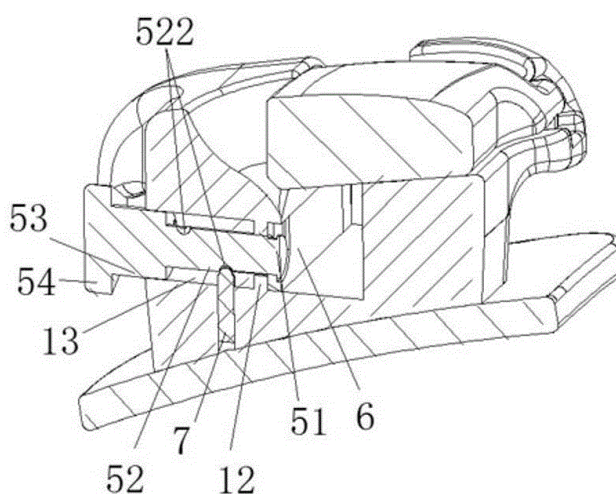
Disclosed are a high-efficiency high-energy light photoelectric conversion material and a fabrication method therefor. The photoelectric conversion material comprises: a glass cover plate; a solar cell, the upper surface thereof and the bottom part of the glass cover plate being tightly glued by means of EVA; and a mounting groove that fixes the glass cover plate and the solar cell. The glass cover plate is double-layered glass, a lower layer thereof is high-light-density glass that is made using lead oxide, silicon dioxide, sodium carbonate, potassium nitrate and strontium oxide as raw materials and that has a refractive index n_d value of 1.80-1.81; an upper layer of glass is low-light-density glass having a refractive index n_d value of 1.50-1.53, wherein one side of the low-light-density glass that is not in contact with the high-light-density glass has an eccentric convex lens structure. An inner area of the mounting groove matching the solar cell is fixed with sound-insulating cotton, and an outer area of the mounting groove matching the glass cover plate and the solar cell is provided with a thermal-conductive silicone grease sealing structure. The present invention is suitable for areas with high-light-energy density, and has high-energy conversion efficiency, is heat resistance, cold resistance and weather resistance.



21: 2020/07086. 22: 13/11/2020. 43: 2021/07/15
51: A61C
71: GUANGZHOU OO MEDICAL SCIENTIFIC LIMITED, LI JI
72: LI JI
33: CN 31: 201810406247.1 32: 2018-04-30
54: STOP BRACKET AND USE METHOD THEREFOR

00: -

An orthodontic stop bracket, comprising a main body portion (1) and a cover body portion (2) mounted on the main body portion (1) and a bottom plate (3) mounted on a bottom surface of the main body portion (1). A transverse arch wire slot is provided on the main body portion (1), an adjustment plate avoidance position (11) is provided on a side wall of the arch wire slot, a receiving position (12) is provided on the adjustment plate avoidance position (11), an adjustment plate (6) is movably mounted on the adjustment plate avoidance position (11), a drive rod (5) is connected to the adjustment plate (6), and the drive rod (5) fits with the receiving position (12). One end of the drive rod (5) is provided with a connector (51) which is fixedly connected to the adjustment plate (6). The stop bracket can adjust the size of the arch wire slot and stop an arch wire (4).

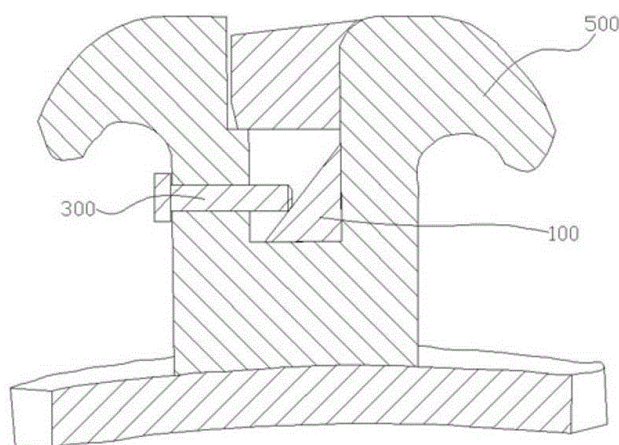


21: 2020/07088. 22: 13/11/2020. 43: 2021/07/15
51: A61C
71: GUANGZHOU OO MEDICAL SCIENTIFIC LIMITED, LI JI
72: LI JI
33: CN 31: 201810406240.X 32: 2018-04-30
54: PROFILED ARCHWIRE LOCKING DEVICE AND USAGE METHOD THEREFOR

00: -

A profiled archwire locking device, comprising a profiled archwire (100), a bracket (500), and a locking element (300), wherein the bracket (500) comprises a bracket main body, a main bracket slot (200) is provided on an upper surface of the bracket main body, and a locking hole (400) is provided in a side surface of the bracket main body; the profiled

archwire (100) comprises an inclined face or a face with a blind hole; the profiled archwire (100) is placed inside the main bracket slot (200); and one end of the locking element (300) passes through the locking hole (400), extends into the main bracket slot (200) and abuts against and comes into contact with the inclined face or a blind hole (153) in the face with a blind hole of the profiled archwire (100). The profiled archwire locking device can make the archwire (100) easily pass into the main bracket slot (200), and can also stably fix the archwire (100) in the main bracket slot (200) so same does not sway, so as to not lose the acting force of the archwire (100), and a torque can be very well conveyed, thereby facilitating a doctor's dental correction operation and simplifying the doctor's dental correction operation.



21: 2020/07089. 22: 13/11/2020. 43: 2021/07/15
51: G02B

71: SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD

72: Jing Min ZHANG

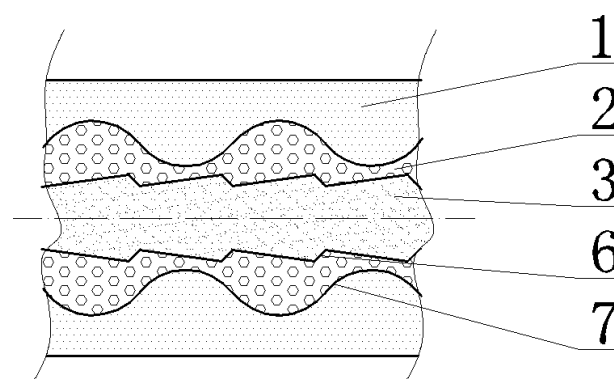
33: CN 31: 201910464161.9 32: 2019-05-30

54: VISIBLE LIGHT THREE-LAYER COLORFUL OPTICAL FIBER WITH WAVED LINING AND MANUFACTURING METHOD THEREOF

00: -

The disclosure discloses a visible light three-layer colorful optical fiber with waved lining and a manufacturing method thereof. The colorful optical fiber comprises an outer casing made of fluorine monomer 2, 2, 2-trifluoroethyl methacrylate polymer and foamed composite material, an intermediate layer formed by compounding polymethyl methacrylate with glass grains, and an inner aromatic polycarbonate core material. A longitudinal

section of a second boundary between the casing and the intermediate layer is sinusoidal; a longitudinal section of a first boundary between the intermediate layer and the core material is saw-toothed; and when the optical fiber is applied, a light propagating path with one tooth is that the light is unidirectionally propagated from a junction of a shady slope surface and a tooth root connecting line to a junction of a sunny slope surface and the tooth root connecting line. The colorful optical fiber according to the disclosure is suitable for mixed light sources, capable of completing natural dispersion without filters, dazzling and changeable in color, and capable of changing light naturally along with the displacement of the optical fiber.



21: 2020/07165. 22: 17/11/2020. 43: 2021/07/30

51: B01F; B03D

71: TAKRAF GMBH

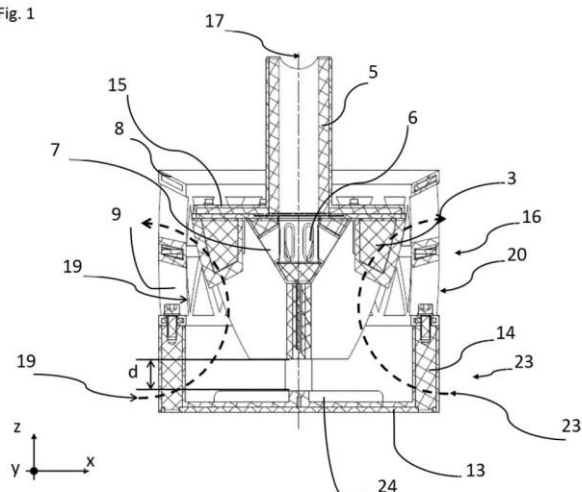
72: Heiko TEUBER, Venkoba Rao BIDARAHALLI, Mohan Kumar Katuga Siddoji RAO

54: DEVICE FOR GENERATING GAS BUBBLES IN SUSPENSIONS FOR THE ENRICHMENT OF MINERAL AND NON-MINERAL RAW MATERIALS AND USE OF SUCH A DEVICE

00: -

The invention relates to a device for generating gas bubbles in suspensions, which are contained in a tank, having a rotation-symmetric stator (16) and a rotation-symmetric rotor (15), which is connected to a hollow drive shaft (5), wherein the stator, the rotor and the hollow drive shaft are arranged concentrically about a vertical axis of rotation (17) of the rotor and the drive shaft, and the rotor executes a rotational movement about the axis of rotation inside the stator.

Fig. 1



21: 2020/07166. 22: 17/11/2020. 43: 2021/07/30
51: C12N

71: PIONEER HI-BRED INTERNATIONAL, INC.
72: CHRISTENSEN, Heather Marie, CONG, Bin,
CRANE, Virginia, HU, Xu, LU, Albert L., MABRY,
Timothy, RINEHART KREBS, Kristen Denise,
SANDAHL, Gary A.

33: US 31: 62/663,832 32: 2018-04-27

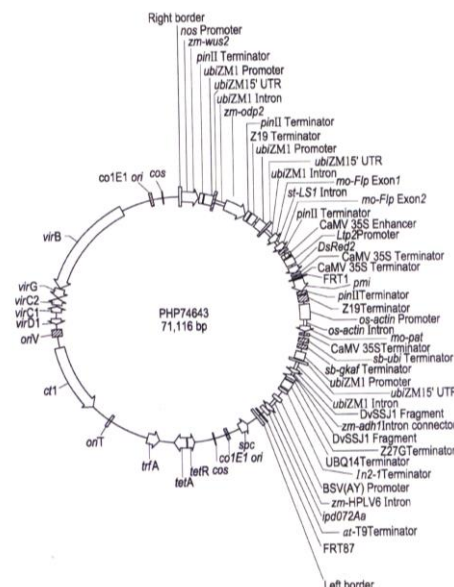
33: US 31: 62/678,579 32: 2018-05-31

33: US 31: 62/776,018 32: 2018-12-06

54: MAIZE EVENT DP-023211-2 AND METHODS FOR DETECTION THEREOF

00: -

Embodiments disclosed herein relate to the field of plant molecular biology, specifically to DNA constructs for conferring insect resistance to a plant. Embodiments disclosed herein relate to insect resistant corn plant containing event DP-023211-2, and to assays for detecting the presence of event DP-023211-2 in samples and compositions thereof.



21: 2020/07167. 22: 17/11/2020. 43: 2021/07/30
51: A61C

71: IMPLANT PROTESIS DENTAL 2004 S.L.

72: SOLER BRULLET, Carlos, PÉREZ YANINI,
Juan Carlos

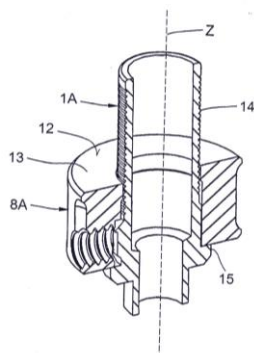
33: ES 31: P201830537 32: 2018-06-04

33: ES 31: P201830679 32: 2018-07-06

54: ASSEMBLY FOR FORMING AN ABUTMENT FOR A DENTAL IMPLANT WITH AN UNPREDETERMINED LENGTH

00: -

The present invention relates to an assembly for forming an interface part for dental implants with variable height. The assembly comprises a tubular interface part (1A) with a central axis (Z) and an auxiliary part (8A) which is coupled to the interface part (1A). In a coupled position: the auxiliary part (8A) is integral with the interface part (1A) at least in a sense of direction parallel to the central axis (Z); a final segment (14) of the abutment (3) protrudes through an upper end of the auxiliary part (8A); and a peripheral surface (12) outside the abutment (3) comprises at least one planar face (13) in a plane (P) which intersects with the final segment (14) of the abutment (3) and the central axis (Z). The planar face (13) of the auxiliary part (8A) serves as a guide for cutting the abutment (3) at a specific height.



21: 2020/07192. 22: 18/11/2020. 43: 2021/07/29
51: B01F; B03D
71: MINTEK

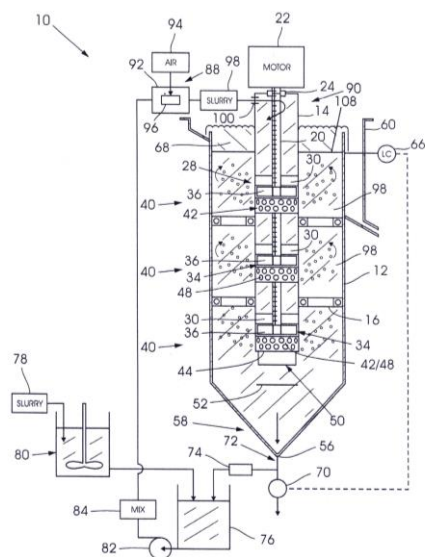
72: ROSS, Victor Emul

33: ZA 31: 2918/03343 32: 2018-05-21

54: FROTH FLOTATION APPARATUS

00: -

A froth flotation apparatus including a tank defining an interior, for holding a slurry, an aerator for aerating a mineral feed stream entering the interior and a system for feeding the aerated mineral stream into a contactor located in the tank.



21: 2020/07220. 22: 19/11/2020. 43: 2021/07/23
51: G06F; H04L

71: GUPTA, Vishal

72: GUPTA, Vishal

33: IN 31: 201811015112 32: 2018-04-20

33: IN 31: 201811036931 32: 2018-09-29

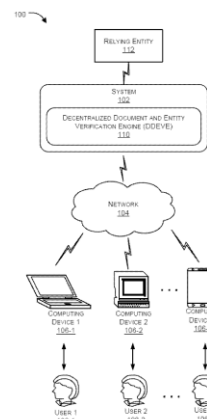
33: IN 31: 201811047339 32: 2018-12-14

33: IN 31: 201911008056 32: 2019-03-01

54: DECENTRALIZED DOCUMENT AND ENTITY VERIFICATION ENGINE

00: -

A system and method enabling an entity to prove its identity and provide authentic documents/data/information therein at any time required based upon data retrieved from an independent cryptographically verifiable source (ICVS) through a secured channel is disclosed. The system enables a virtual and secure browser on a user computing device allowing a user to login and retrieve authentic information pertaining to the user from the ICVS in a verifiable and untamperable manner. The retrieved information is bounded with origination information of the ICVS and the bounded information is provided to relying entities as authentic information for verification. Also, cryptographic value of the authentic information can be stored in an immutable storage such as blockchain, so that the cryptographic value is used by the relying-party to validate integrity of the authentic information.



21: 2020/07243. 22: 2020/11/20. 43: 2021/07/23

51: H04K; H04L; H04W

71: VAN ROMBURGH, Willem Johannes Jacobus

72: VAN ROMBURGH, Willem Johannes Jacobus

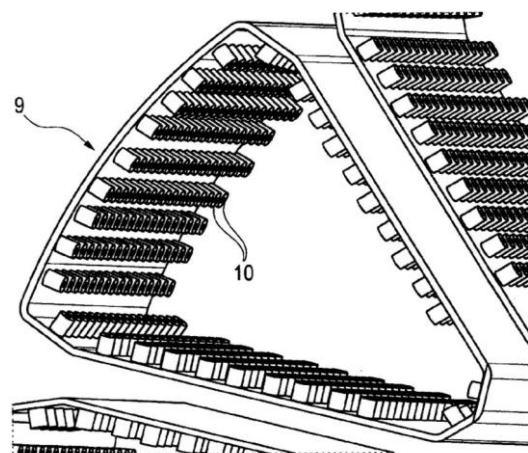
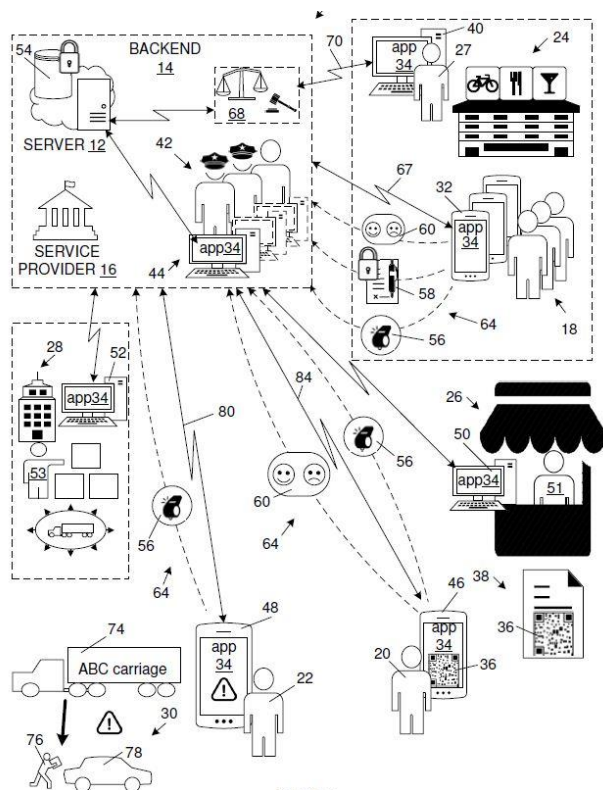
33: ZA 31: 2019/07667 32: 2019-11-20

54: SYSTEM AND METHOD FOR PROCESSING USER FEEDBACK

00: -

A system (10) and method (100) for processing user feedback is disclosed. The method is conducted at a server (10). Subscriber computing devices (40, 50, 52) are registered and data relating to each subscriber entity is stored in a database at a backend (14). User device(s) (32, 46, 48) are

registered for use of the method. Operator computing device(s) (44) are provided in data communication with the server and a two-way communications path is facilitated between an operator computing device and one of the registered user devices. A user (18, 20, 22) is prompted via a user interface provided at the registered user device, to select one of the registered subscriber entities and to input user feedback (64) of the selected subscriber entity. The user feedback includes one of unauthorised event data, assessment data and a protected disclosure by the user.

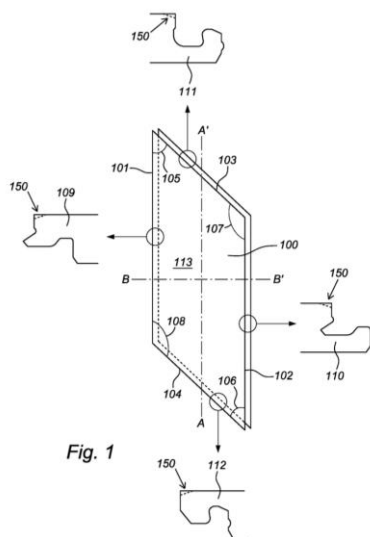


21: 2020/07302. 22: 24/11/2020. 43: 2021/07/22
51: E04F
71: I4F LICENSING NV, TOWER IPCO COMPANY LIMITED
72: BOUCKÉ, Eddy Alberic, VEEKEN, Jacobus Gerardus Nicolaas Laurentius
33: NL 31: 2020972 32: 2018-05-23
54: MULTI-PURPOSE TILE SYSTEM, TILE COVERING, AND TILE
00: -

The invention relates to a multi-purpose tile system, in particular a floor tile system, comprising a plurality of multi-purpose tiles, in particular floor tiles, wall tiles, or ceiling tiles. The invention also relates to a tile covering, in particular floor covering, ceiling covering, or wall covering, consisting of mutually coupled tiles according to the invention. The invention further relates to a tile for use in multi-purpose tile system according to the invention.

21: 2020/07283. 22: 23/11/2020. 43: 2021/07/23
51: F26B; F27B; F27D; F28D; F28F
71: GRENZBACH BSH GMBH
72: Niclas SCHULTHEIS
54: ROTARY TUBE APPARATUS

00: -
The invention relates to a rotary tube apparatus for cooling or heating pourable bulk materials, in particular a sectional cooler (8) for cooling a pourable solid, having structures attached to the walls thereof for increasing the heat conduction. The invention is characterized in that the structures comprise hollow tubes (10).



21: 2020/07334. 22: 2020/11/25. 43: 2021/07/22
51: A23D; A23J; A23L; C11B

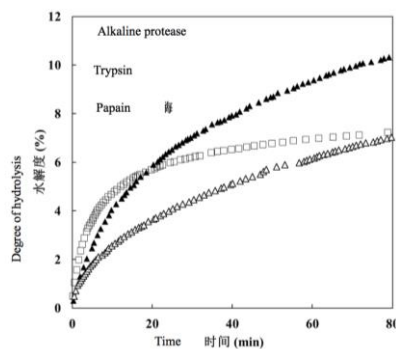
71: QINGDAO AGRICULTURAL UNIVERSITY
72: XU, Xingfeng, SUN, Qingjie, WANG, Yanfei, YANG, Zhenyu

33: CN 31: 202010580146.3 32: 2020-06-23

54: HIGHLY DIGESTIBLE CLEAN-LABEL COMPOSITE EMULSION AND PREPARATION METHOD THEREOF

00: -

Disclosed are a highly digestible clean-label composite emulsion and a preparation method thereof, belonging to the technical field of intensive and deep processing of plant-based raw materials. The highly digestible clean-label composite emulsion of the present invention is obtained by carrying out restriction enzyme hydrolysis on rice glutelin, mixing the obtained restriction enzyme hydrolyzed rice glutelin with a hydrolysis degree of 2% with a phospholipid oil phase, and carrying out high-speed dispersion and high-pressure homogenization. With an average particle size between 200nm and 300nm, the highly digestible clean-label composite emulsion prepared by the method of the present invention has uniform particle size distribution and good dispersion degree; and the prepared highly digestible clean-label composite emulsion is relatively stable at the isoelectric point; during the digestion process, free fatty acids are released rapidly, and the lipid digestibility is as high as 95%.



21: 2020/07337. 22: 2020/11/25. 43: 2021/07/23
51: B23Q; E21F

71: RDTEK (PTY) LIMITED

72: Neo Kgame MODISANE, Richard Sean TAYLOR

33: ZA 31: 2019/07901 32: 2019-11-28

54: SAFETY VERIFICATION SYSTEM & ASSOCIATED METHOD FOR IDENTIFYING A SAFETY THREAT

00: -

A safety verification system for a series of devices, the system comprising: a primary tag, associated uniquely with each unique device; a reader, for interrogating a microchip associated uniquely with a primary tag, and for transceiving data between it and a database; and a database, for the storage of data generated during a safety inspection; a secondary tag, for capturing the inspector's unique identity details; an intelligence module, for interrogating data for the purpose of identifying safety threats, or potential safety threats, characterised in that safety data is free from inspector manipulation at or after inspection. The invention extends, further, to an associated method for retrieving and assessing data for purposes of identifying a safety threat

21: 2020/07350. 22: 25/11/2020. 43: 2021/07/23
51: A61M

71: P & P PATENTS AND TECHNOLOGIES S.R.L.

72: CARTIERE, Carmelo Raffaele, PROFITI, Giuseppe, VALLES, Rosario, MAURO, Pantaleo

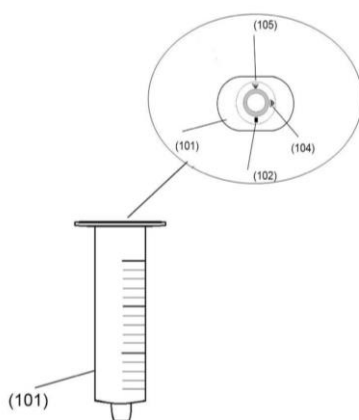
33: IT 31: 102018000005604 32: 2018-05-22

54: SAFETY AND FILLING SYSTEM FOR RETRACTABLE NEEDLES SYRINGES

00: -

The present invention relates to an innovative system which definitively prevents the re-use of syringes with retractable needles, allowing at the same time to fill the tank by means of a mechanical system installed inside the piston. The operation that

aims at preventing the re-use of the device takes place through a mechanical system that prevents the return of the piston towards the initial position of aspiration and restricts, therefore, its action in a single direction and prevents the return of the plunger to the initial position of injection and therefore restricts its action in a single direction. Moreover a rotating mechanical transition system prevents the re-positioning of the piston in the previously used position. The filling of the container, instead, takes place through the use of a system via a flexible cannula placed inside the piston.



on the optical assembly. The optical assembly may further include a camera (254) for capturing images of the frame and determining the orientation of the optical assembly based on the images.

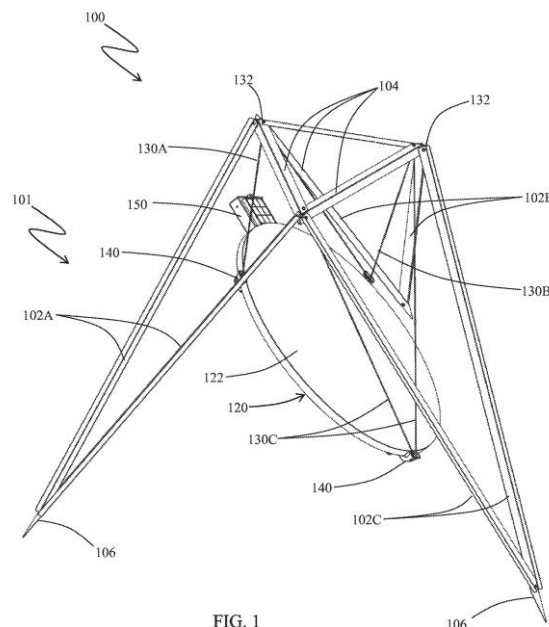


FIG. 1

21: 2020/07381. 22: 26/11/2020. 43: 2021/07/06
51: H02S

71: HELIOGEN, INC.

72: GROSS, William, PEDRETTI, Andrea

33: US 31: 62/680,499 32: 2018-06-04

33: US 31: 62/691,489 32: 2018-06-28

54: SELF-BALLASTED HELIOSTAT WITH SUSPENDED MIRROR ASSEMBLY

00: -

A heliostat for tracking the sun is disclosed. The heliostat comprises a frame (104) with legs (102); an optical assembly (120) configured to hang between the legs of the frame by means of a plurality of wires (130); and a plurality of actuators (520) configured to change the orientation of the optical assembly via the plurality of wires. The optical assembly may include a mirror (122) or photovoltaic panel that tracks the sun, and concrete backing (610). The optical assembly may further include a tracking controller (150) to energize the plurality of actuators, photovoltaic cell (252) configured to power the tracking controller and actuators, cleaning assembly (1710), and reservoir (770) for capturing rain water

21: 2020/07403. 22: 2020/11/27. 43: 2021/07/22
51: H04L; H04W

71: Shefa Zoey Holdings (Pty) Ltd

72: MAHLEMPINI, Nkosinathi Emmanuel,
NGUBANE, Thobeka

54: SPECIALISED PERSONNEL REPLACEMENT SYSTEM

00: -

The invention relates to a specialised personnel replacement system that is configured to manage real-time replacement of absent specialised personnel. The system comprises a client application for clients who require replacement of specialised personnel and a specialised personnel application for personnel who are available as replacements. The system has a control centre server including programmable logic means and a digital data store for the storage of digital data used in, obtained and generated by the co-operating applications. The client application is programmed to enable a client to generate a personnel replacement request and transmit the request and competence requirements to the control centre server. The control centre server is programmed to

search the control centre server digital data store for personnel that match the competence requirements of the requesting client, to generate a response to the requesting client and upon receipt of the client's selection process the client's payment.

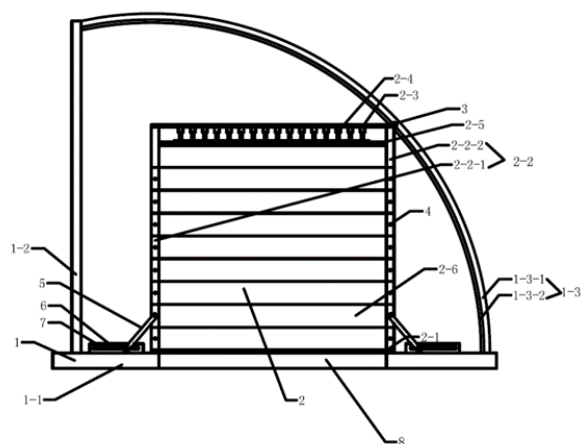
21: 2020/07432. 22: 2020/11/30. 43: 2021/07/22
51: G09B
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: KONG, Liang, ZHAO, Yapeng, YUAN, Qingmeng, WANG, Xing, LIN, Xingyu, XU, Rui, LIU, Chao

33: CN 31: 201911406858.7 32: 2019-12-31

54: SIMILAR MATERIAL SIMULATION EXPERIMENT DEVICE AND METHOD FOR INCLINED ROCK STRATA

00: -

The disclosure relates to a similar material simulation experiment device and method for inclined rock strata. Fixed rods and fixed bases are fixed together; rectangular baffles and an experiment table side plate are fixed together, the experiment table side plate, an experiment table bottom plate and the rectangular baffles jointly form a working slot; a compression plate and upper jacks are fixed together, the upper jacks and an experiment table top beam are fixed together, and the experiment table top beam is transversely mounted at a top of the experiment table side plate; a hydraulic tank is located in a model rack base, and lower jacks are located in the hydraulic tank; a sliding gear is arranged at a top end of a right side plate and is meshed with a gear portion in a guide rail, and a deflection prevention guide portion cooperates with the gear portion.



21: 2020/07500. 22: 30/11/2020. 43: 2021/07/23
51: B02C; C04B; C09C

71: SMS GROUP GMBH

72: Emir MUSTAFI, Joachim GIER-ZUCKETTO, Thorsten SCHRIEWER, Raffael STASTNY

54: DRY PREPARATION OF KAOLIN IN THE PRODUCTION OF HPA

00: -

The invention relates to a method for preparing raw kaolin (R) in a milling and separating device (1) which has a milling section (13) and a first separating section (16). The raw kaolin (R) is a material mixture of at least kaolin as a first fraction (F1) and a second fraction (F2) which comprises at least quartz. The raw kaolin (R) is supplied to the milling section (13), in which the first fraction (F1) is at least partly removed from the raw kaolin (R) by means of a grinding process, and the first fraction (F1) is then separated from the second fraction (F2) in the first separating section (16).

21: 2020/07502. 22: 02/12/2020. 43: 2021/07/23
51: C23C

71: ARCELORMITTAL

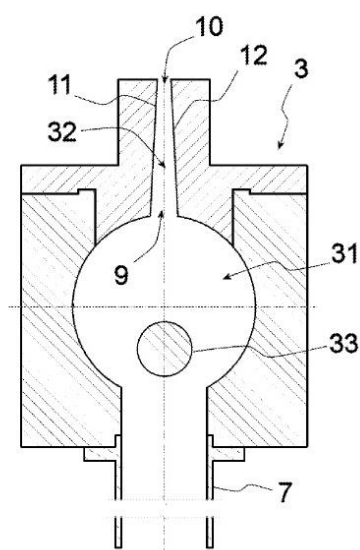
72: Sergio PACE, Bruno SCHMITZ, Didier MARNEFFE, Eric SILBERBERG

33: IB 31: PCT/IB2018/054419 32: 2018-06-15

54: VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE

00: -

The invention relates to a vacuum deposition facility 1 for continuously depositing, on a running substrate S, coatings formed from metal or metal alloy, the facility comprising an evaporation crucible 4 suited to supply metal or metal alloy vapor and comprising an evaporation pipe 7, a deposition chamber 2 suited to have the substrate S run through along a given path P and a vapor jet coater 3 linking the evaporation pipe to the deposition chamber, wherein the vapor jet coater further comprises a repartition chamber 31 comprising at least one reheating means 33 positioned within the repartition chamber and a vapor outlet orifice 32 comprising a base opening linking the vapor outlet orifice to the repartition chamber, a top opening through which the vapor can exit in the deposition chamber and two sides converging toward each other in the direction of the top opening.



21: 2020/07614. 22: 07/12/2020. 43: 2021/07/30

51: C23C

71: ARCELORMITTAL

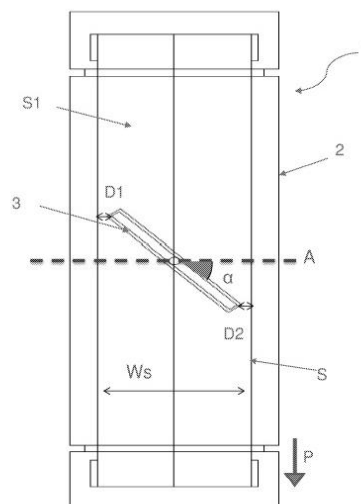
72: Eric SILBERBERG, Sergio PACE, Rémy BONNEMANN

33: IB 31: PCT/IB2018/054297 32: 2018-06-13

54: VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE

00: -

The present invention relates to a Method for continuously depositing, on a running substrate, coatings formed from at least one metal inside a Vacuum deposition facility comprising a vacuum chamber; a coated substrate coated with at least one metal and a vacuum deposition facility for the method for continuously depositing on a running substrate.



21: 2020/07616. 22: 07/12/2020. 43: 2021/07/30

51: A61K; A61P

71: AVIXGEN INC.

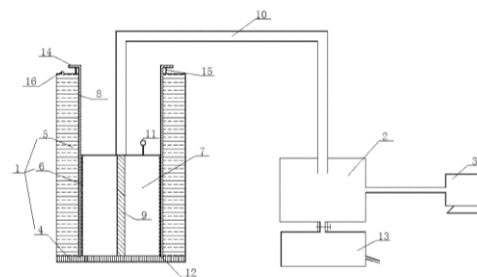
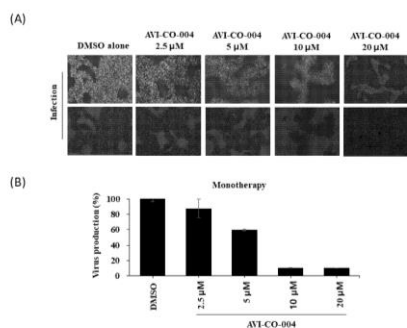
72: KIM, Min Jung, CHOI, Jun Sub, KOO, Hye Cheong, BAEK, Yi Yong

33: KR 31: 10-2018-0056007 32: 2018-05-16

54: PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING AIDS COMPRISING RHODANINE DERIVATIVE

00: -

The present invention relates to a pharmaceutical composition for preventing or treating AIDS, comprising a rhodanine derivative and a nucleoside reverse transcriptase inhibitor. A complex composition of the present invention exhibits a synergistic effect in terms of anti-HIV activity as compared with a case where each of the compounds is used as a single drug. Thus, the composition provides sufficient anti-HIV activity and exhibits an excellent effect of decreasing side effects such as toxicity even in a case where each compound is administered in a small amount. Accordingly, the present invention is expected to greatly contribute to treatment of AIDS patients.



21: 2020/07808. 22: 2020/12/15. 43: 2021/07/30

51: G01N

71: CENTRAL SOUTH UNIVERSITY

72: CHEN, Kepin, WU, Danwei, REN, Xinkai, GAN, Zhixiang, CHEN, Lianwei, MO, Tianyu

33: CN 31: 201911316728.4 32: 2019-12-19

54: INDOOR SIMULATION DEVICE FOR MEASURING HORIZONTAL HYDRAULIC CONDUCTIVITY IN VACUUM PRELOADING STATE

00: -

The invention discloses an indoor simulation device for measuring horizontal hydraulic conductivity in a vacuum preloading state, including a soil sample barrel, a vacuum tank and a vacuum pump. The soil sample barrel includes a base plate seat, a ring-type water tank fixed to an upper surface of the base plate seat, and a hole-type barrel fixed to the inside of the ring-type water tank, and a movable baffle is disposed between the ring-type water tank and the hole-type barrel; and a drainage plate is disposed in the hole-type barrel, and a top end of the drainage plate is connected to the vacuum tank through a hose. When vacuum preloading is performed, the movable baffle is embedded into the base plate seat of the soil sample barrel to achieve sealing and watertightness.

21: 2021/00183. 22: 07/01/2021. 43: 2021/07/30

51: G06F

71: GUANGDONG UNIVERSITY OF

PETROCHEMICAL TECHNOLOGY

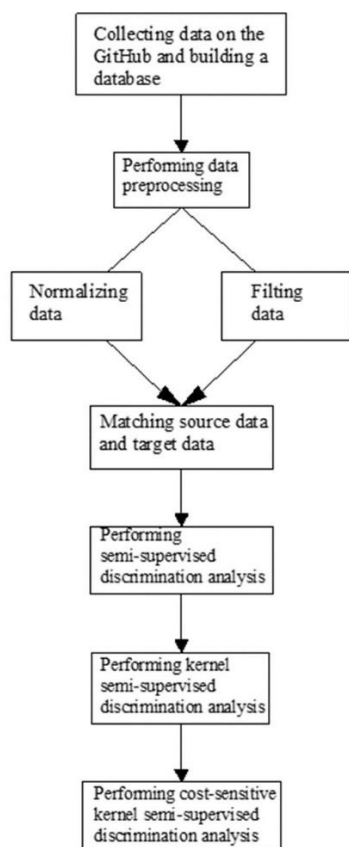
72: JING, Xiaoyuan, SUN, Ying, LI, Juanjuan, HUANG, He, YANG, Yongguang, YAO, Yongfang, PENG, Zhiping

33: CN 31: 201910261507.5 32: 2019-04-02

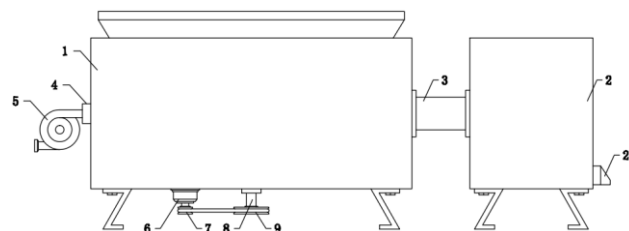
54: GITHUB-BASED SEMI-SUPERVISED HETEROGENEOUS SOFTWARE DEFECT PREDICTION ALGORITHM

00: -

The invention discloses a GitHub-based semi-supervised heterogeneous software defect prediction algorithm, including following steps: collecting a data set and building a database of one's own; preprocessing the collected data, and introducing an enhanced version of a canonical correlation analysis method for heterogeneous data processing, which is composed of unified metric representation (UMR) and canonical correlation analysis (CCA); and adding a cost-sensitive kernel semi-supervised discrimination analysis method to realize the GitHub-based semi-supervised heterogeneous software defect prediction algorithm. The advantages of the present invention are that a problem of data heterogeneity in software defect prediction is solved; and a cost-sensitive kernel semi-supervised discrimination analysis (CKSDA) technology is proposed for the first time, which is used to solve different misclassification costs and realize defect prediction effects.



an air inlet, and the left side of the said air inlet is connected to the air outlet of the fan through a flange, and the left side at the bottom of the said dust removal box is equipped with a power motor through the motor base, and the purity of the separation is improved through the dust removal process performed prior to the separation; furthermore, the work efficiency and work quality are improved by means of the automatic operation of the dust removal and separation; as well as the movement space of the raw material in the separation box is increased through the inclined setting of secondary sieve plate, and thus, makes the separation more thorough; in addition, the range of movement of the raw material in the dust removal box is increased through the setting of spoiler, and thus, results in the flow time of the raw material in the dust removal box is increased, so that improve the dust removal effect effectively.



21: 2021/00500. 22: 2021/01/25. 43: 2021/06/30
 51: A41G; B01D; B03B; B07B; B07S; B68G
 71: West Anhui University, Lu'an Fengyu Environmental Protection Technology Co., Ltd., Lu'an the Sea Feather Down Products Company Ltd, The Sea Feather Limited Company of Lu'an
 72: Lingang LI, Juan HU, Xueyong YU, Yu QIN, Yelong ZHU, Xuemei LI, Xucheng FU, Juncheng JIN, Ming CHENG

54: DEVICE FOR SEPARATING FLYING FILAMENTS OF FEATHERS FROM FEATHER DUST

00: -

The present invention discloses a technical field related to separation of flying filament of feather down, specifically refers to a type of device for separating flying filament of feather down from feather dust, consisting of a dust removal box and a separation box, the said dust removal box is connected with the separation box through conduction pipe, and the two ends of the conduction pipe are respectively connected to the inner cavities of the dust removal box and the separation box, in addition, the middle part of the left side wall of the said dust removal box is screwedly connected with

21: 2021/00648. 22: 29/01/2021. 43: 2021/06/24
 51: B01J

71: STAR SCIENTIFIC LIMITED

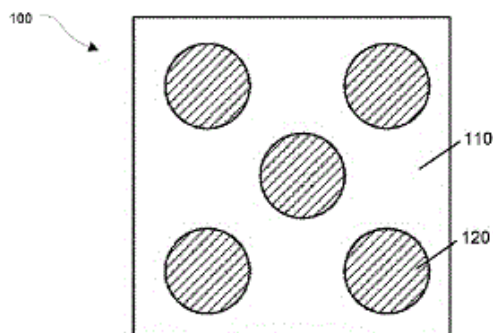
72: HEATON, STEVEN JAMES, KIRK, SAMUEL JAMES

33: US 31: 62/549,816 32: 2017-08-24

54: COMPOSITIONS, METHODS, AND APPARATUSES FOR CATALYTIC COMBUSTION

00: -

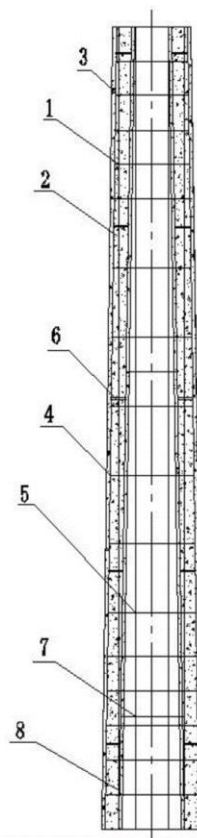
There is provided heat exchange reactors including the catalyst composition and methods for heating a heat exchange medium. The catalyst is adapted for low temperature activation of a hydrogen combustion reaction.



21: 2021/00692. 22: 2021/02/01. 43: 2021/07/29
 51: C04B; E04C; E04H
 71: HENAN DINGLI TOWER CO., LTD.
 72: Wentao Zhang, Jinghui Song, Xinyi Zhang, Wenjie Gao
 33: CN 31: 202010858070.6 32: 2020-08-24
54: HIGH-PERFORMANCE CONCRETE POWER POLE
 00: -

The present disclosure discloses a high-performance concrete power pole including a concrete and a power pole frame. The power pole frame adopts a design of double-layered reinforcement distribution which is divided into two circular layers with different diameters and is wrapped in high-performance concrete, and the power pole frame includes a plurality of the basalt fiber composite bars, a plurality of ordinary steel bars, a plurality of steel bar limit rings, a plurality of erecting rings and a grid mesh. The basalt fiber composite bar and the ordinary steel bar are used as longitudinal stressed bars of the power pole, and the plurality of the basalt fiber composite bars are evenly distributed in outer positioning grooves of the plurality of the steel bar limit rings, and the plurality of ordinary steel bars are evenly distributed in inner positioning grooves of the plurality of steel bar limit rings. The inner side of the ordinary steel bar is fixed with the erecting ring, and the outer side of the basalt fiber composite bar is wound with the grid mesh. The power pole frame is placed in the high-performance concrete, and each of a plurality of protective layers is fixed to the outside of the plurality of basalt fiber composite bars to ensure that each of the plurality of basalt fiber composite bars is in the high-performance concrete. Through this, comprehensive performances of the power pole are

improved, the steel consumption is saved, and the weight of the power pole is reduced.



21: 2021/01387. 22: 2021/03/01. 43: 2021/06/11
 51: C08J; C09K
 71: NANTONG UNIVERSITY
 72: CAO, Yufeng, FAN, Dongli, LIU, Jie, ZHOU, Xi, ZHOU, Jinqiu, QIAN, Tao
 33: CN 31: CN202010134024.1 32: 2020-03-02
54: ACRYLIC POLYMERS/FATTY ACID CROSSLINKED SOLID-SOLID PHASE CHANGE MATERIALS AND PREPARATION METHOD THEREOF
 00: -

Disclosed are an acrylic polymer/fatty acid crosslinked solid-solid phase-change material and a preparation method thereof. The phase-change material is prepared from following raw materials in parts by weight: 1 to 1.5 parts of an acrylic polymer, 5 to 10 parts of a fatty acid, and 0.5 part of a IIA or IIB group metal oxide or hydroxide. The solid-solid phase-change material, with a melting enthalpy of 50-127 J/g and a melting temperature of 20-60°C, has excellent thermal stability, cycle durability and shape retention ability, and thus has a good application prospect in the textile and construction

industries. The preparation method of the material is simple, can be operated easily, does not require post-treatment, and has low production cost, which is easy for large-scale industrial production.

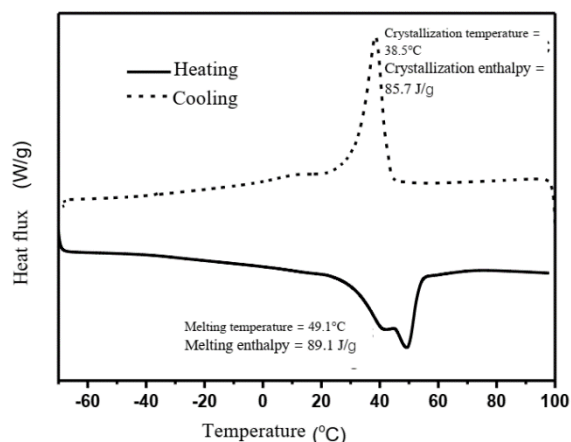


Fig. 2

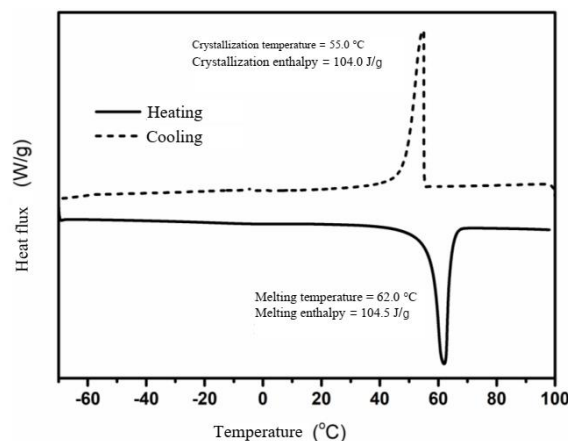


Fig. 2

21: 2021/02687. 22: 2021/04/22. 43: 2021/06/30
51: C30B
71: Linyi University
72: Ruquan LIANG, Tie LIU

21: 2021/01388. 22: 2021/03/01. 43: 2021/06/11
51: C08L; C09K
71: NANTONG UNIVERSITY
72: QIAN, Tao, FAN, Dongli, CAO, Yufeng, LIU, Jie, ZHOU, Xi, ZHOU, Jinqiu
33: CN 31: CN202010134031.1 32: 2020-03-02
54: MALEIC ANHYDRIDE COPOLYMERS/FATTY ACID CROSSLINKED SOLID-SOLID PHASE CHANGE MATERIALS AND PREPARATION METHOD THEREOF

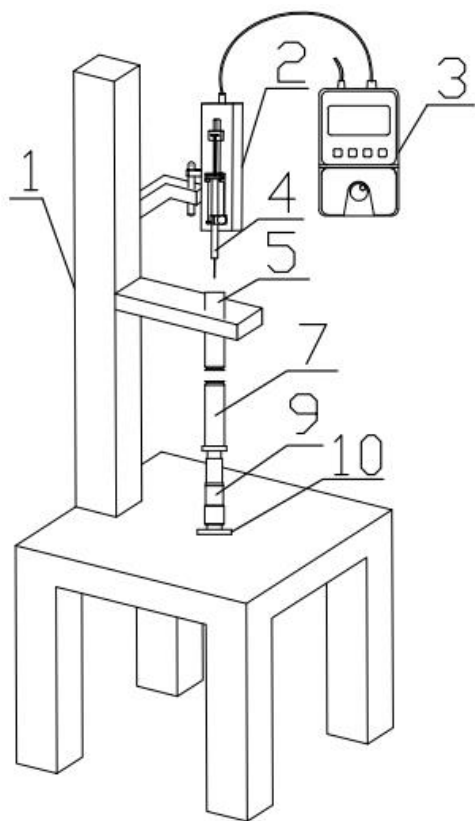
00: -

Disclosed are a maleic anhydride copolymer/fatty acid crosslinked solid-solid phase-change material and a preparation method thereof. The phase-change material is prepared from following raw materials in parts by weight: 1 to 1.5 parts of a maleic anhydride copolymer, 5 to 20 parts of a fatty acid, and 0.55-0.75 part of a IIA or IIB group metal oxide or hydroxide. The solid-solid phase-change material, with a melting enthalpy of 65-135 J/g and a melting temperature of 18-70°C, has excellent thermal stability, cycle durability and shape retention ability, and thus has a good application prospect in the textile and construction industries. The preparation method of the material is simple, can be operated easily, does not require post-treatment, and has low production cost, which is easy for large-scale industrial production.

54: A LIQUID BRIDGE GENERATOR OF CONCENTRATION CAPILLARY CONVECTION

00: -
A liquid bridge generator of concentration capillary convection, which consists of the support, liquid bridge device, liquid injector and height adjustment device. The described liquid bridge device comprises the upper bridge column and the lower bridge column whose vertical center line is on the same line; the described upper bridge column and the lower bridge column are vertically mounted at the upper bridge column mounting hole in the middle of the support and the lower bridge column mounting hole at the lower part of the support respectively. The upper bridge column consists of the upper disc, and the lower bridge column is assembled by the lower disc and the height adjustment device; there is a through-hole with a fixed depth inside the described upper disc and a circle of tapered holes near the circumference of the lower surface; the described lower bridge column mounting hole is a threaded hole processed at the lower part of the support; the described liquid injector consists of the micro injection pump and the microsyringe, wherein the micro injection pump is vertically mounted at the mounting hole at the upper part of the support, and the microsyringe is fitted on the micro injection pump; the described height adjustment device comprises the micrometer head, copper circular

table and external threaded cylinder, which are fitted at the threaded hole at the lower part of the support.



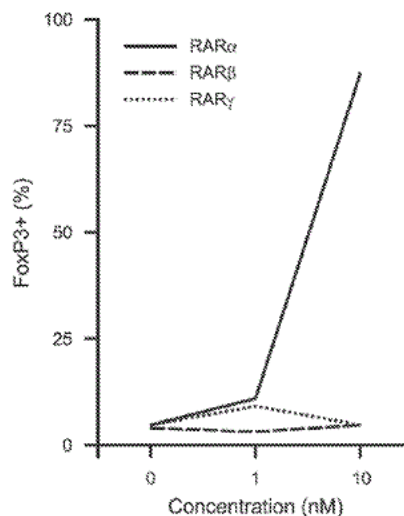
21: 2021/03016. 22: 2021/05/05. 43: 2021/06/11
51: A61K
71: IO THERAPEUTICS, INC.
72: CHANDRARATNA, Roshantha, A., SANDERS, Martin, E.

33: US 31: 62/532,233 32: 2017-07-13

33: US 31: 62/552,814 32: 2017-08-31

54: RECEPTOR SUBTYPE AND FUNCTION SELECTIVE RETINOID AND REXINOID COMPOUNDS IN COMBINATION WITH IMMUNE MODULATORS FOR CANCER IMMUNOTHERAPY
00: -

Disclosed herein are compounds for potentiation of targeted cancer immunotherapeutics. Compounds which act on retinoic acid receptors (RAR) and retinoid X receptors (RXR) are used in combination with chimeric antigen receptor (CAR)-modified immune cells (sometimes abbreviated as CAR-MIC) to potentiate the anti-cancer activity.



21: 2021/03513. 22: 24/05/2021. 43: 2021/06/24
51: F03B

71: YANJUN CHE

72: YANJUN CHE

33: CA 31: 3022123 32: 2018-10-25

54: HYDRAULIC PRESSURE POWER BATTERY

00: -

A method for driving a transmission mechanism output power in response to an anticipated fluid-pressure gradient field is provided. The method includes sensing the change of direction of pressure gradient field at a desired location from the different area of the transmission mechanism within fluid. The method further includes constructing fluid-pressure gradient field based upon isolation-fluid apparatus or low-density fluid space installed on a transmission mechanism within fluid.

21: 2021/03617. 22: 2021/05/27. 43: 2021/06/21
51: B60N

71: VAN EIJK, Mattheus Casparus Rene

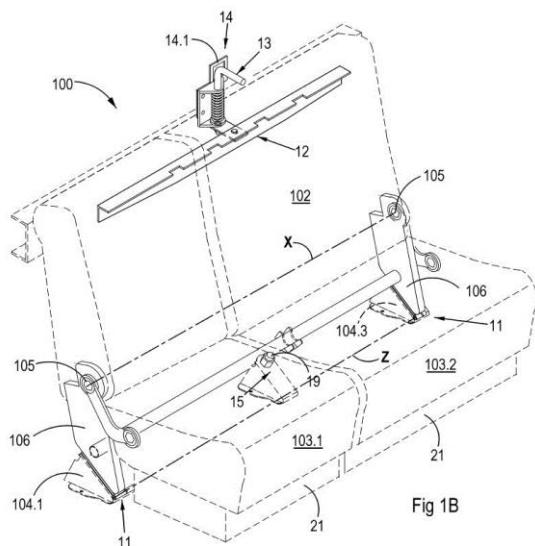
72: VAN EIJK, Mattheus Casparus Rene

54: A VEHICLE SEAT ARTICULATION KIT

00: -

The invention relates to a vehicle seat articulation kit 10 for converting a seat of certain pickup trucks or double cab bakkies having a fixed backrest into a seat 100 with articulate backrest 102 in order to gain access to a storage cavity 20 defined behind the backrest 102, thereby optimising use of available storage space in the vehicle. To this end, the vehicle seat articulation kit 10 includes a pair of

hinges 11, a backrest catch plate 12, and a spring-loaded latch 13. Each hinge 11 is configured to be mounted between a seat bracket 106 and a seat bracket mounting 104 over existing holes. The backrest catch plate 12 is configured to be retrofitted to the rear of the backrest 102. The spring-loaded latch 13 is secured to a rear wall of the vehicle cab and is configured operatively, releasably to engage the backrest catch plate 12.



21: 2021/03835. 22: 2021/06/02. 43: 2021/08/12
51: G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

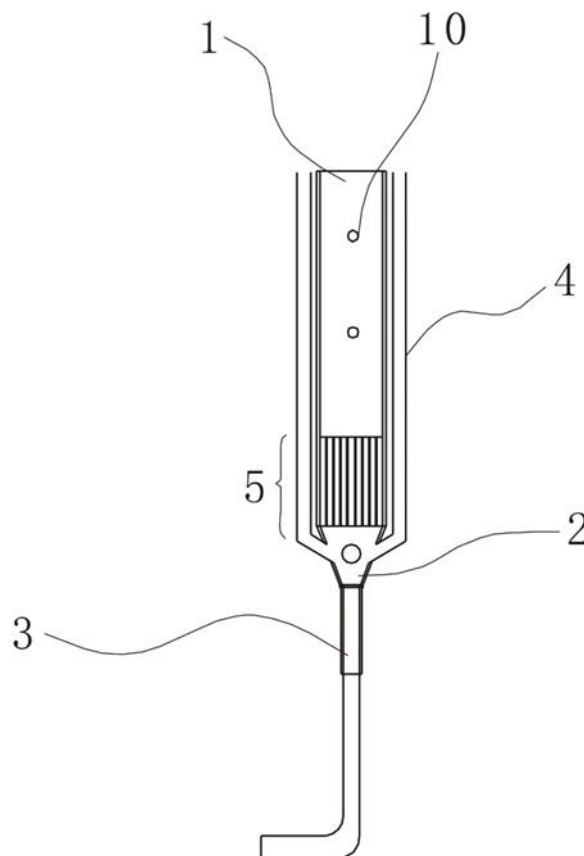
72: ZHIYANG LI, HAIZENG LIU, CHAO WANG, CHAO ZHANG, JIANGWEI XU, JIEQI ZHANG, ZHONGJIA HUANG, DEWEI WANG, CHUNFU LIU

54: INTERFERENCE-FLOW-BASED CONCENTRATION DETECTION COMPONENT FOR ROTARY CUTTING DRAINAGE-TYPE CONCENTRATION TANK AND DETECTION APPARATUS WITH SAME

00: -

The present invention relates to the technical field of concentration measurement, and particularly relates to an interference-flow-based concentration detection component for a rotary cutting drainage-type concentration tank and a detection apparatus with same. The interference-flow-based concentration detection component for the rotary cutting drainage-type concentration tank is arranged above a concentration tank and connected behind a sampling component. The concentration detection

component includes a plurality of detection tanks and measuring elements that are correspondingly arranged on the detection tanks. The quantity of the detection tanks may be determined according to the sampling points.



21: 2021/03881. 22: 2021/06/07. 43: 2021/08/12
51: A23L

71: JINAN QINGHUI AGRICULTURAL SERVICE CO., LTD.

72: JI, CHENGRUN

54: HEALTHY NUTRITION FLOUR FOR DIABETIC AND PREPARATION METHOD THEREOF

00: -

The present invention belongs to the technical field of food, and particularly to a healthy nutrition flour for a diabetic and a preparation method thereof. The healthy nutrition flour for the diabetic is prepared from the following raw materials in parts by weight: 45-55 parts wheat flour, 3-7 parts defatted soybean meal, 5-15 parts rice flour, 3-7 parts Chinese cabbage-soybean meal, 3-7 parts yam flour, 15-25 parts buckwheat flour, 3-7 parts white sorghum flour, 3-7 parts taro meal, 1-3 parts bitter melon powder, 1-

3 parts Auricularia auricula powder, 1-3 parts walnut powder, 3-7 parts protein powder, 2-4 parts moringa seed powder, 1-3 parts spinach root powder, 1-3 parts Lycium barbarum powder, 3-7 parts wheat bran, 1-3 parts corn stigma powder, 1-3 parts sweet potato leaf powder, 1-3 parts Radix astragali powder and 2-4 parts Endothelium corneum gigeriae galli powder.

21: 2021/03883. 22: 2021/06/07. 43: 2021/07/29
51: H99Z

71: Anhui University of Science and Technology
72: Ru HU, Jiwen WU, Xiaorong ZHAI, Guangtao WANG, Yaoshan BI, Wei LIU, Kai HUANG

54: SYSTEM FOR ANALYZING TEMPORAL AND SPATIAL EVOLUTION LAW OF PORES IN CAVING ZONE AND FISSURE ZONE DURING COAL SEAM MINING

00: -

The present invention belongs to the technical field of coal seam mining, and discloses a system for analyzing the temporal and spatial evolution law of pores in a caving zone and a fissure zone during coal seam mining. The system for analyzing the temporal and spatial evolution law of the pores in the caving zone and the fissure zone during the coal seam mining process comprises: a bulk solid preparation mold, shear test apparatus, a main control module, an image acquisition and recognition module, an image enhancement module, a fissure calculation module, a data analysis module, a data storage module, and a display module. The present invention overcomes the shortcomings that a previous research test process about a fracture of a bulk solid is invisible, and cannot be observed in real time, an indoor test is difficult to realize and quantitative research and analysis are inadequate.

21: 2021/03927. 22: 2021/06/08. 43: 2021/07/30
51: G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

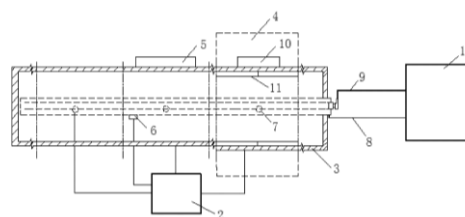
72: HUANG, Xianwen, YAO, Zhishu, XUE, Weipei, LIU, Xiaohu, LI, Xinwei, FANG, Yu, LI, Xiang, CHENG, Bin

54: CONTROLLABLE MULTI-FACTOR GROUND SOURCE HEAT PUMP TESTING PLATFORM

00: -

Disclosed is a controllable multi-factor ground source heat pump testing platform. The testing

platform comprises a thermal response tester, a control platform, a horizontal heat preservation groove, a heating apparatus, a refrigerating apparatus, an acoustic emission sensor and a temperature sensor. The testing platform enables to divide the horizontal heat preservation groove, in which a coaxial double-tube heat exchanger is buried, into several sections, wherein the heating apparatus and the refrigerating apparatus are arranged in related sections to simulate environmental temperature of different strata in an engineering actual condition. The testing platform is easy to be constructed and can enable to control temperature field of a soil mass to simulate the influence of various factors on heat exchange efficiency of a buried tube heat exchanger, whereby a test can be conducted indoors, thus obtaining high operability.



21: 2021/04009. 22: 10/06/2021. 43: 2021/07/22
51: G01B

71: SANMEN SANYOU TECHNOLOGY INC

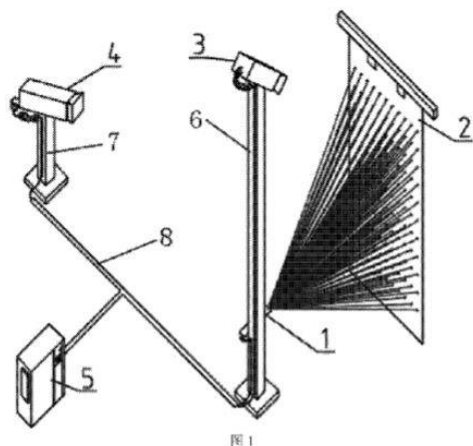
72: WU, Junyi, GU, Xiandai, GONG, Li, ZHANG, Chi
33: CN 31: 201910339362.6 32: 2019-04-25

54: SYSTEM AND METHOD FOR DYNAMICALLY DETECTING CATHODE PLATE FLATNESS

00: -

A dynamic measurement system and method for flatness of a cathode plate comprising a laser generator, a measurement surface, a front and side camera; the laser is at a position directly facing the position directly below the intersection point of the diagonal lines of the measurement surface, and is used for projecting a dot matrix onto the measurement surface; the front camera is fixed directly above the laser, both are fixed to a rod A; the side camera is fixed to a rod B; the front and side cameras upload collected image information to a computer. The system solves the problem of detecting a shaking process when a cathode plate product runs at high speed, detected point positions

are distributed more densely, and results are more accurate; the invention can collect statistics on the performance condition of the product in real time and view the performance condition.



21: 2021/04018. 22: 10/06/2021. 43: 2021/07/23
51: B65G

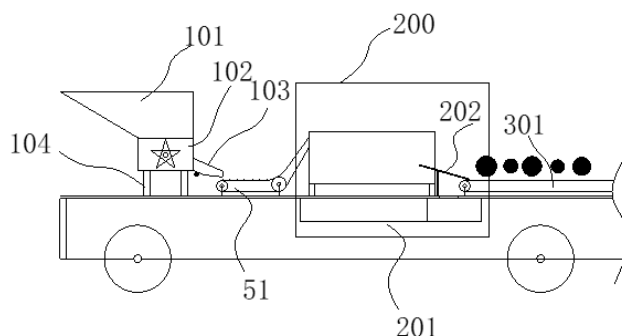
71: SANMEN SANYOU TECHNOLOGY INC
72: WU, YONG, WU, JUNYI, ZHAO, LEIZHEN,
YAN, PAN, ZHOU, CHENGWU

33: CN 31: 201910243454.4 32: 2021-03-28

54: GRIPPING DEVICE OF CATHODE PLATE

00: -

The present invention relates to the technical field of hydrometallurgical tools, and in particular to a gripping device of a cathode plate. The present invention comprises a frame, outer jaws, outer fixed jaws and an inner jaw mechanism. The mounting flange plate is fixed on the frame between two front-back side plates arranged in parallel. Two drive unit mounting seats are symmetrically arranged on the front-back side plates on the left and right sides of the mounting flange plate and used for fixing and installing a drive unit. The outer jaws are in shaft connection with the connecting rod. The drive unit controls the opening and closing of the outer jaws by connecting and pulling the shaft connection position of the three rods. The outer jaws and the connecting rod are fixed on the frame.



21: 2021/04019. 22: 2021/06/10. 43: 2021/06/18
51: C04B

71: Rahman, Ibadur, Dev, Nirenrdra, Arif,
Mohammed, Azam, Ameer

72: Rahman, Ibadur, Dev, Nirenrdra, Arif,
Mohammed, Azam, Ameer

54: PROCESS FOR PREPARING HIGH STRENGTH CONCRETE USING NANO TITANIUM DIOXIDE

00: -

The present disclosure relates to a process for preparing cementitious matrix by mixing nano titanium dioxide. The process comprises treating mixture of sand and ordinary Portland cement with nano titanium dioxide at 0%, 0.5%, 1.0%, and 1.5% doping percentage by weight of cement for preparing at least four types of mixtures; and adding polycarboxylate (PC) based superplasticizer into the mixture to control workability and water content of the mixture to produce a concrete.

21: 2021/04127. 22: 2021/06/15. 43: 2021/08/05
51: B07C

71: ANHUI UNIVERSITY OF SCIENCE AND
TECHNOLOGY

72: ZHAO, ERNING, WANG, CHAO, LI, HUI, ZHU,
JINBO, FENG, FEISHENG, YANG, KE, ZHOU, WEI,
ZHU, HONGZHENG

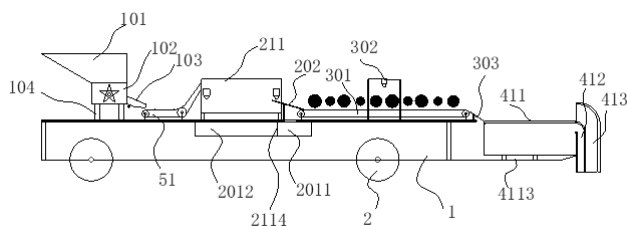
33: CN 31: 202011208733.6 32: 2020-11-03

54: COAL AND GANGUE SEPARATION SYSTEM

00: -

The present invention relates to the field of coal and gangue sorting equipment, in particular to a coal and gangue separation system. The present invention comprises a coal and gangue identification device, a coal and gangue separation device and a drive unit and is used to identify clean coal and gangue. The coal and gangue separation device comprises a first supporting seat, guide part, clean coal collection bin and gangue collection bin. The guide part hinges

with the first supporting seat and rotates vertically. The inlets of the clean coal collection and gangue collection bins are located on a rotation track of a movable end of the guide part. The drive unit drives the guide part to rotate according to an identification result of a coal and gangue identification unit, to adjust a movable end of the guide part to connected with the clean coal collection or gangue collection bin.



21: 2021/04128. 22: 2021/06/15. 43: 2021/08/05

51: E21F

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHANG, Leilin, KUAI, Duolei, BIAN, Yunpeng, SUN, Yue, WU, Wenjing, SHU, Senhui, YANG, Mengdan

33: CN 31: 202011595121.7 32: 2020-12-29

54: METHOD FOR GOVERNING SPONTANEOUS COMBUSTION OF REMAINING COAL IN GOB-SIDE ENTRY RETAINING GOAF

00: -

Provided is a method for treating spontaneous combustion of residual coal in a gob-side entry retaining gob, comprising steps of: releasing tracer gas into an air inlet to determine an air leakage channel; using the channel and combining the outline of the coal face, using software to determine a high-temperature area of the goaf; detecting a radiation temperature field of residual coal in the goaf by using infrared to obtain a goaf surface temperature distribution map; detecting and analyzing sound wave information in a high-temperature region in the distribution map, determining an abnormal region in the goaf; determining a superposed region of the goaf high-temperature region and the abnormal region in the goaf as a gob residual coal spontaneous combustion region along a gob entry; stopping the leakage; drilling the spontaneous combustion area of the residual coal in the gob-side entry retaining gob, and filling fire extinguishing materials

21: 2021/04129. 22: 2021/06/17. 43: 2021/07/29

51: A01G

71: Zaozhuang University, CHEN, Hongkai, WANG, Shengjuan

72: CHEN, Hongkai, WANG, Shengjuan

54: NO IRRIGATION BASE PLATE FOR ECOLOGICAL RESTORATION TREES IN ABANDONED MINING AREA AND ITS PRODUCTION METHOD AND PLANTING METHOD

00: -

The invention discloses a no irrigation base plate for ecological restoration trees in waste mining area and its production method and planting method, including a base plate matrix, an anti evaporation cover and a swabbing root, the middle part of the base plate matrix is provided with a reserved planting hole, the top part of the base plate matrix is provided with backfill soil, and the backfill soil is provided with an anti evaporation cover, and the anti evaporation cover is formed by splicing two half discs through a clamping groove. After the two half discs are spliced, a reserved growth hole is formed in the middle, a funnel water collecting hole is arranged on the two half discs, a super absorbent fiber is arranged on the outside of the swabbing root, a nutrient soil is filled inside the swabbing root, and an expansive agent is arranged inside the nutrient soil. The technique is simple and the principle is clear, which can ensure the early survival and late sustainable growth of tree seedlings.

21: 2021/04130. 22: 2021/06/17. 43: 2021/07/29

51: E04B

71: Harbin University of Commerce

72: Su Jincheng

54: PREFABRICATED VIBRATION-DAMPING COMPONENTS FOR ASSEMBLED BUILDING

00: -

A prefabricated vibration-damping member for assembly building, including a base plate, the upper end of the base plate is provided with two rows of multi-row casing side by side, the lower end of the casing is provided with a connection part integrated with the base plate, the upper end is provided with a platform part, both sides are symmetrically provided with a convex plate, the convex plate is provided with at least one side limit tube, the side limit tube is screwed with a limit side ejector, a spring area is left

between two casings in the same row, a limit cross plate is provided at the spring area, the lower end of the limit cross plate is fixed to the base plate by a number of support vertical plates, and the limit cross plate is equipped with a clamping assembly that can hold the exposed pipe between the two casing. The utility model has a reasonable structure design, which can better limit the left and right sides of the pipe, so as to ensure the overall clamping effect, and is suitable for providing stable clamping and fixing of multiple groups of pipes at the same time.

21: 2021/04131. 22: 2021/06/17. 43: 2021/07/29
51: A23B

71: Research Institute of Pomology, Chinese Academy of Agricultural Sciences

72: Jia Chaoshuang, Wang Zhihua, Wang Wenhui, Tong Wei, Du Yanmin, Jiang Yunbin

54: METHOD OF MAINTAINING APPLE STORAGE QUALITY AND PROLONGING SHELF LIFE

00: -

The invention discloses a method for maintaining the storage quality of apples and prolonging the shelf life, which comprises the following steps: (1) Ferment gardenia residue by using microbial inoculum, and take supernatant of the fermentation product as gardenia fermentation liquid; (2) Add chitosan and sodium chloride into gardenia fermentation liquid to prepare an apple preservative; (3) Spray the apple preservative on the apple fruit 1-2 days before picking the fruit. By spraying the apple preservative of the invention, a protective layer is formed outside the apple, which can delay the senescence of the fruit and inhibit the decay.

21: 2021/04132. 22: 2021/06/17. 43: 2021/07/29
51: A01K

71: ShangHai Ocean University

72: Zhang Lizhen, Chen Leilei, Li Jun, Liang Yongcheng, Wu Di, Jiang Bo

54: MOBILE ACCURATE FEEDING SYSTEM FOR SHRIMP PONDS

00: -

The invention belongs to the field of shrimp culture, and discloses a method for feeding bait in shrimp ponds, which can solve the problem of uniform and accurate feeding of bait in shrimp ponds. Whether the real-time feeding speed and the expected feeding speed on a feeding path are equal or not is

monitored, and if not, the real-time feeding speed is adjusted to a preset feeding speed. The invention also discloses a shrimp pond bait feeding control module and device, in particular to the shrimp pond bait feeding device, which can well implement the shrimp pond bait feeding method automatically. The control module and device have characteristics including simple structure and convenient use. It is arranged on a catamaran and comprises a connecting component, a bait feeding unit and a bait feeding control module, and the bait feeding unit comprises a bait box, an electric push rod and an open plate, wherein the bottom of the bait box is in a bucket structure, and the bottommost part is provided with a bait feeding port, the electric push rod is arranged on the outer surface of the bottom of the bait box. The open plate closes or opens the bait feeding port when the electric push rod is actuated.

21: 2021/04133. 22: 2021/06/17. 43: 2021/08/05
51: G06K; G06T

71: RESEARCH INSTITUTE OF MODERN

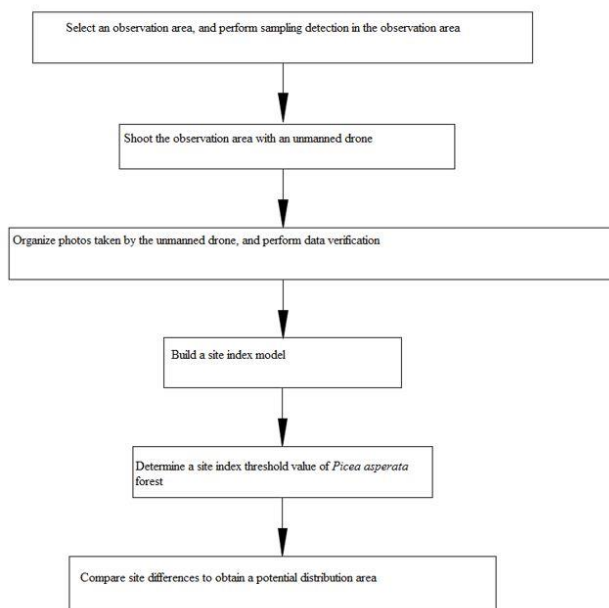
FORESTRY, XINJIANG ACADEMY OF FORESTRY

72: ZHANG, Huifang, ZHANG, Jinglu, GAO, Yuan, ZHU, Yali, GAO, Jian, XIAO, Zhongqi, BAOERHAN, Dilixiati, WANG, Lei, YANG, Yiyuan, HUANG, Liping

54: METHOD FOR PREDICTING POTENTIAL DISTRIBUTION AREA OF PICEA ASPERATA

00: -

The present invention relates to the distribution of vegetation regions, and provides a method for predicting a potential distribution area of *Picea asperata*, including the steps: selecting and performing sampling detection in an observation area; photographing the observation area with an unmanned drone; organizing photos, and then performing data verification; building a site index model; determining a site index threshold value of *Picea asperata*; comparing site differences to obtain a potential distribution area. The site index model is built by comprehensively considering 3 factors: water, heat and terrain on the basis of a growth site of *Picea asperata*. The potential distribution area of the *Picea asperata* forest in a study area is defined scientifically through the model. In the development plan of the forest, the site index model avoids manmade errors, and provides a definite quantity index for the division of the potential distribution area of the *Picea asperata* forest.



21: 2021/04137. 22: 2021/06/17. 43: 2021/07/29
51: G06T

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Jia, Xiaofen, Guo, Yongcun, Zhao, Baiting, Huang, Yourui

54: AN IMAGE DENOISING METHOD FOR DEEP VERTICAL SHAFT WALL

00: -

The invention discloses an image denoising method for deep vertical shaft walls, which includes five steps: Step 1: building a denoising model; Step 2: designing the loss function; Step 3: using standard images to train the denoising model to obtain model parameters; Step 4: testing the denoising model with actual images, modifying the model parameters, and obtaining the ELU-CNN denoising model; Step 5: inputting the noisy shaft wall image into the ELU-CNN denoising model to obtain the denoising result. The depth of denoising model is 28 layers, comprising 5 feature extraction modules FEM and skip connection, which fuses the output features of the first convolutional layer with the output features of each FEM in series, so that the low-level features extracted by the first layer are continuously used, to ensure the full extraction of image features. The present invention can retain the texture characteristics of the damaged part of the shaft wall well when removing the blind noise of the shaft wall image.

21: 2021/04139. 22: 2021/06/17. 43: 2021/08/05
51: F16H; G01M

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

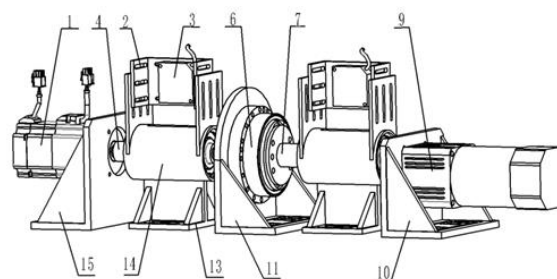
72: JIANG, KUOSHENG, FAN, ZAICHUAN, ZHOU, YUANYUAN, DING, PINGPING

33: CN 31: 202110414421.9 32: 2021-04-16

54: EXPERIMENT TABLE AND METHOD FOR QUANTITATIVELY INSPECTING COMPREHENSIVE PERFORMANCE OF OUTGOING QUALITY OF RV REDUCERS

00: -

The present invention relates to the technical field of inspecting equipment, and in particular to an experiment table and method for quantitatively inspecting comprehensive performance of outgoing quality of RV reducers. The present invention comprises an experiment table for quantitatively inspecting comprehensive performance of outgoing quality of RV reducers, comprising a first sensor shaft which is in transmission connection with the end of a servo motor, wherein one side of the servo motor is in transmission connection with an RV reducer, and an end of an RV reducer is in transmission connection with a second sensor shaft which is coaxial with the first sensor shaft. With the combination of high-precision laser displacement sensors and eccentric sleeves, the present invention realizes non-contact measurement, which can accurately capture and identify characteristic signals of an RV reducer.



21: 2021/04172. 22: 2021/06/17. 43: 2021/08/05
51: C02F; G05B

71: XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY, CHINESE ACADEMY OF SCIENCES

72: TINGTING PAN, HONGHUA ZHOU, ZHI LI, HONGTAO JIA, YANING CHEN, CHENGGANG ZHU

54: METHOD FOR DYNAMICALLY MONITORING INLAND RIVER BASIN GROUNDWATER IN ARID REGION IN REAL TIME

00: -

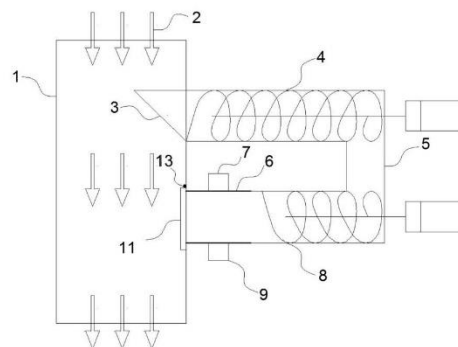
The present invention discloses a method for dynamically monitoring inland river basin groundwater in an arid region in real time. The method is mainly composed of the following steps: preparation of groundwater monitoring wells before layout, a layout principle of the groundwater monitoring wells, determination of layout density of the groundwater monitoring wells, construction of the groundwater monitoring wells, arrangement of an automatic water level monitoring device and regular management of the groundwater monitoring wells and surrounding facilities thereof. According to the method, the groundwater monitoring wells that fully cover the basin are arranged in the basin; intelligent water level meters are arranged in the groundwater monitoring wells; and a data transmitting terminal is connected to a data receiving terminal by the intelligent water level meters via a wireless network.

Basin	Area of the basin (km ²)	Plain terrain area of the basin (km ²)	Numbers of groundwater monitoring wells (piece)
Aksu River	42800	28650	115
Yarkant River	76950	28383	114
Hotan River	62390	23015	92
Kaidu-kongque River	49584	24225	97
Dina River	12530	7739	31
Weigan-Kuqa River	41540	24525	98
Kaokar River	72240	45553	182
Koriya River	44710	21143	85
Cherchen River	137600	97003	388
Trunk stream	17580	17580	70
Total	557924	317816	1271

21: 2021/04173. 22: 2021/06/17. 43: 2021/08/05
 51: H01G; H04B
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: WENBAO LV, DAN ZHU, HAIZENG LIU, YIBING QIU, LEI WANG
 33: CN 31: 202110237282.7 32: 2021-03-03
54: CONTINUOUS SAMPLING-DETECTING-SAMPLE RETURNING APPARATUS OF ONLINE ASH DETECTOR

00: -

The present invention relates to the field of continuous sampling-detecting-sample returning of an online ash detector for a coal preparation plant, and particularly relates to a continuous sampling-detecting-sample returning apparatus of an online ash detector. the present invention includes a continuous sampling-detecting-sample returning apparatus of an online ash detector includes a chute, a sampling opening, an upper spiral conveyor, an up-down spiral conveying passage, a return baffle hinge, a wear-resistant polyethylene measuring pipe, a radioactive isotope online ash detector, a lower spiral conveyor and a return baffle. The radioactive isotope online ash detector is composed of an ash detector probe, an ash detector radioactive source and an ash detector stander.



21: 2021/04177. 22: 2021/06/18. 43: 2021/07/29
 51: A61K
 71: Bozhou University, Anhui Yiren Co., Ltd
 72: Yang Yongjian, Zhi Yunkun, Yu Hao, Zhu Ming, Ge Yue, Han Guang, Wang Wenjian, Wang Mengli, Xia Youfu, Zhang Jin
54: A PURE CHINESE TRADITIONAL MEDICINE ANTIBACTERIAL PREPARATION AND ITS APPLICATION

00: -

The invention relates to a pure Chinese medicine antibacterial preparation and its application, which relates to the Chinese medicine. The raw materials of the antibacterial preparation included 80-90 parts of radix paeoniae alba in bozhou, 5-10 parts of paris polyphylla, 10-20 parts of dandelion, 0.1-2 parts of menthol and 0.1-2 parts of borneol. The antibacterial preparation formula is reasonable, antibacterial range is wide, fast, and non-toxic, no stimulation, no

side effects. It can be used to suppress and kill pathogenic yeast, suppurative cocci, intestinal pathogenic bacteria and viral fungi, etc. It also has significant effect on the treatment of various skin diseases.

21: 2021/04179. 22: 2021/06/18. 43: 2021/07/29
51: G01N

71: Hangzhou Laihe Biotechnology Co., Ltd

72: Ye Xiaojun, Ou Yang yun

54: A TEST STRIP CARRIER PLATE, DETECTION DEVICE AND ITS MANUFACTURING METHOD

00: -

The invention discloses a test strip carrier plate, detection device and its manufacturing method, of which, the test strip carrier plate is suitable for installing at least one test strip, of which, the test strip forms a display area and a sample adding area. The sample adding area is suitable for adding the sample, the display area is suitable for displaying the detection result, the test strip carrier plate has at least one installation groove and at least one identification mark, the test strip is suitable for being installed in the installation groove. When the test strip is installed in the installation groove, the display area of the test strip is aligned with the identification mark, so that the sample flows from the sample adding area to the display area, and the detection result of the sample can be identified under the comparison of the identification mark.

21: 2021/04180. 22: 2021/06/18. 43: 2021/07/29
51: B61K

71: Henan Xinda Railway Equipment Co., Ltd

72: Tian yong xing, Wang xiao feng, Wang yun ping

54: ASSEMBLY TOOLING AND METHOD OF FLAW DETECTION WHEEL OF TRAIN TRACKS

00: -

This invention belongs to the field of train flaw detection technology, in particular to assembly tooling and method of flaw detection wheel of train tracks. The assembly tooling of flaw detection wheel of train tracks is used for assembling the flaw detection wheel in an installation groove. The flaw detection wheel is matched and hung in the guide groove and assembled into the installation groove. The invention also discloses an assembly method of the train track flaw detection wheel. The invention not only solves the posture problem of workers'

inability to exert force caused by lying supine to work, but the butting problem between the flaw detection wheel and the installation groove, it can avoid hand shaking caused by inability of the arm to exert force, which make it impossible to quickly push the flaw detection wheel into the installation groove. The invention can also solve the problems of locking and adjustment, and avoid the problem of bending and deformation of local supporting parts caused by long-time using, and it can greatly improve the convenience and adjustability of assembly, and make the invention more practical and more convenient to popularize and apply.

21: 2021/04181. 22: 2021/06/18. 43: 2021/08/05
51: B01D

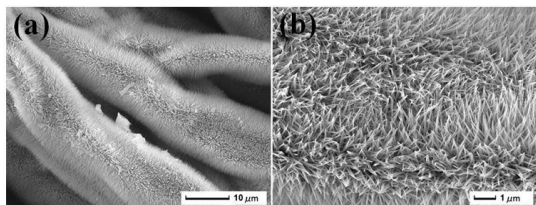
71: Anhui University of Science And Technology

72: XIE, Atian, CUI, Jiuyun, LIU, Yin, DING, Guoxin, CHENG, Guojun

54: PREPARATION METHOD FOR SELF-CLEANING CARBON FIBER COMPOSITE MEMBRANE FOR OIL-WATER SEPARATION

00: -

A preparation method for a self-cleaning carbon fiber composite membrane for oil-water separation, comprising the steps: shearing and heating a cotton fabric in a tube furnace, in a nitrogen atmosphere for carbonization treatment, washing a product with ethyl alcohol, drying the product in an oven to obtain the carbon fiber membrane - CC; dissolving nickel chloride hexahydrate, cobalt chloride hexahydrate and urea into deionized water, transferring the mixed solution into a hydrothermal reactor, soaking CC in the mixed solution in the hydrothermal reactor for constant-temperature hydrothermal reaction, conducting natural cooling after reaction is completed, taking out the product, washing the product with the ethyl alcohol, and drying the washed product obtaining the carbon fiber membrane modified with the nickel-cobalt layered double hydroxide - CC@LDH; soaking CC@LDH into an aqueous silver nitrate solution, irradiating a mixture for by UV light to obtain the self-cleaning carbon fiber membrane, denoted by CC@LDH/Ag.



21: 2021/04182. 22: 2021/06/18. 43: 2021/07/23
51: F16L
71: MISHRA, Devesh, AGRAWAL, Krishna Kant, TIWARI, Devesh, PANDE, Tanuja, MISHRA, Piyush Kumar
72: MISHRA, Devesh, AGRAWAL, Krishna Kant, TIWARI, Devesh, PANDE, Tanuja, MISHRA, Piyush Kumar

54: INTERNET OF THINGS BASED PIPE CRAWLER SYSTEM

00: -

The present invention generally relates to an internet of things-based system for pipe crawler and its working method thereof. The system comprises a) a crawler comprises a plurality of wheels embodied inside a hollow cuboidal caged body through a connecting means to crawl over non-coated pipes; a poly urethane rubber coating cover wrapped over plurality of wheels to provide necessary friction over surface to avoid slipping over pipe and provides adequate adhesion through gripping so that it could not get stuck with pipe; a plurality DC geared motors connected with at least half of said plurality of wheels to generate required gripping force; b) a plurality of industrial grade infrared sensors for detecting change in diameter; c) an inductive proximity sensor placed on said caged body facing towards said pipeline for detecting any crack on surface of said pipeline; and d) a server for obtaining real time data of sensors.

21: 2021/04183. 22: 2021/06/18. 43: 2021/07/29
51: A61K
71: Binhui Biopharmaceutical Co., Ltd.
72: LIU, Binlei

54: RECOMBINANT ONCOLYTIC HERPES SIMPLEX VIRUS TYPE II AND ITS PHARMACEUTICAL COMPOSITION

00: -

The present disclosure provides a recombinant oncolytic herpes simplex virus type II and its

pharmaceutical composition. The recombinant oncolytic herpes simplex virus type II, with two ICP34.5 genes and one ICP47 gene knocked out, are inserted human telomerase chemotactic gene SLC-Te-Fc expression cassette into the two ICP34.5 gene sites respectively, and the SLC-Te-Fc expression cassette is successively connected with CMV promoter and secondary lymphoid tissue chemokines SLC, telomerase Te, Fc fragment of antibody and Bovine growth hormone polyadenosine sequence BGHPA. Oncolytic HSV not only has a strong oncolytic effect, but also can be used as a gene carrier to carry and express tumor associated antigens efficiently as therapeutic immune gene vaccine. The combination of virus and chemotherapy also overcomes the weakness that oncolytic HSV alone cannot strongly induce specific anti-tumor immunity.

21: 2021/04184. 22: 2021/06/18. 43: 2021/07/29
51: C12N
71: Binhui Biopharmaceutical Co., Ltd.
72: LIU, Binlei, WANG, Yang, HU, Han, JIN, Jing, WANG, Runyang

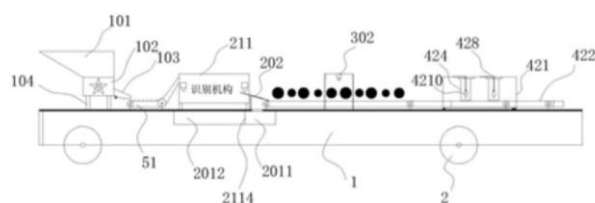
54: METHOD FOR ACTIVATING IMMUNOCYTES IN VITRO

00: -

The present disclosure provides a method for activating immunocytes in vitro by VAK technique. Autologous immunocytes of the cancer patient can be activated in vitro by the VAK technique, and by re-infusing these activated immunocytes into the patient's body, a good anti-tumor effect can be achieved, and because these immunocytes are autologous immunocytes, there is no rejection, being safe and reliable.

21: 2021/04234. 22: 2021/06/21. 43: 2021/07/22
51: B07C; E21F
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: ZHAO, Erning, WANG, Chao, LI, Hui, ZHU, Jinbo, FENG, Feisheng, YANG, Ke, ZHOU, Wei, ZHU, Hongzheng
33: CN 31: 202011207489.1 32: 2020-11-03
54: COAL AND GANGUE SORTING DEVICE AND RAW COAL AND GANGUE DISCHARGE SYSTEM
00: -
Disclosed is a coal and gangue sorting device comprising a fourth conveying belt, a fifth conveying

belt, a deflector rod and a deflector rod driving mechanism; the fourth transmission belt and the fifth transmission belt are arranged in parallel; the deflector rod is used for pushing the screened mineral aggregate on the fourth conveying belt to the fifth conveying belt; the deflector rod driving mechanism is used for pushing the deflector rod to work through air flow. The high-pressure airflow of the high-pressure nozzle does not directly act on materials, but acts on the deflector rod, and coal and gangue separation is realized through the deflector rod. The high-pressure nozzle injects air through the electromagnetic valve, namely the action control of the deflector rod is converted into the on-off control of the electromagnetic valve, to improve control precision of the deflector rod and the coal and gangue separation precision.

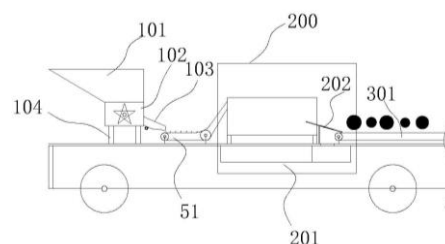


21: 2021/04236. 22: 2021/06/21. 43: 2021/07/22
51: B01D; E21C
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: HUI LI, CHAO WANG, JINBO ZHU, YONG ZHANG, KE YANG
33: CN 31: 202011208144.8 32: 2020-11-03
54: LINEAR COAL AND GANGUE SEPARATION DEVICE AND MULTI-THREAD COAL AND GANGUE SEPARATION SYSTEM

00: -

The present invention relates to the field of coal and gangue sorting equipment, in particular to a linear coal and gangue separation device and a multi-thread coal and gangue separation system. The linear coal and gangue separation device includes a transmission chain, a sixth conveying belt and a seventh conveying belt; the transmission chain is arranged in a movable manner; and the sixth conveying belt and the seventh conveying belt are arranged below an upper surface of the transmission chain in parallel. Chain slots used to fill mineral aggregate are formed in the transmission chain in an array; second discharge electromagnetic valves

used to control discharge are arranged at the bottoms of the chain slots; and the second discharge electromagnetic valves are used to control the chain slots to discharge mineral aggregate to the sixth conveying belt or the seventh conveying belt.



21: 2021/04237. 22: 2021/06/21. 43: 2021/07/23
51: B23B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, QIDONG COAL MINE OF ANHUI HENGYUAN COAL ELECTRICITY CO., LTD, CHONGQING RESEARCH INSTITUTE CO., LTD OF CHINA COAL TECHNOLOGY ENGINEERING GROUP

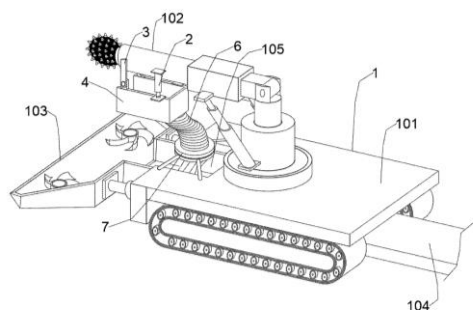
72: LI, Shaobo, GUO, Biao, ZHU, Chuanqi, REN, Qihan

33: CN 31: 202110040459.4 32: 2021-01-12

54: HIGH EFFICIENCY BORING MACHINE FOR MINE ROADWAY

00: -

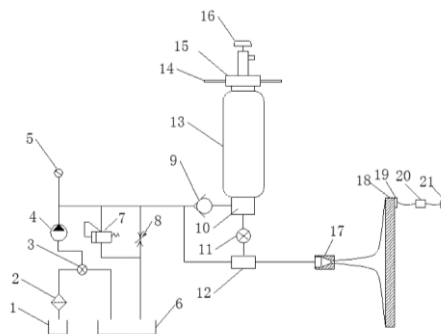
Disclosed is a high efficiency boring machine for mine roadway, including a boring machine body. The boring machine body includes a body portion, a cutting portion provided at a top of the body portion, a spade plate portion provided at a front side of the body portion, and a transportation portion provided inside the body portion. The boring machine body further includes a collecting hopper mounted at a bottom of the cutting portion. A position of the body portion corresponding to the collecting hopper is provided with a receding opening for feeding coal rock blocks spalled in the collecting hopper into the transportation portion. A bottom of the collecting hopper is communicated with a bellow.



21: 2021/04239. 22: 2021/06/21. 43: 2021/07/23
 51: E21D
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: WANG, Congdong
54: METHOD FOR DETECTING WATER JET CUTTING OF TARGET MATERIAL BASED ON FORCE CHANGE

00: -

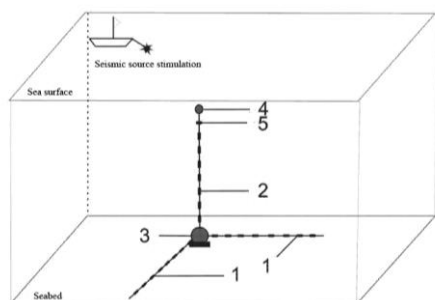
The present invention relates to a method for detecting water jet cutting of a target material based on force change. The present invention discloses a method for detecting water jet cutting of a target material based on force change, which is characterized in that: assuming that a target material is horizontally placed, a water jet nozzle is located above the target material, and a jet is vertical to a surface of the target material; a piezoresistive sensor in a resistance type pressure sensor is stuck on a back side of the target material to avoid a jet trajectory; the sensor is connected to a data acquisition card NI USB-6229 and a computer; and LabVIEW software is installed on the computer. The present invention provides an effective detection method for whether a water jet breaks down a target material when cutting the target material.



21: 2021/04262. 22: 21/06/2021. 43: 2021/07/23
 51: G01V
 71: OCEAN UNIVERSITY OF CHINA
 72: XING, Lei, LIU, Hongwei, LIU, Huaishan, LI, Qianqian, LV, Boran, ZHANG, Jin
 33: WO 31: PCT/CN2020/113106 32: 2020-09-02
54: DEVICE FOR HIGH-PRECISION MEASUREMENT OF WAVELETS FROM PLASMA SOURCE IN SHALLOW WATER

00: -

Disclosed is a device for the high-precision measurement of wavelets from a plasma seismic source in shallow water conditions, including two submarine cables and a vertical cable connected to a digital package, and a floating ball and an underwater compass; two submarine cables respectively arranged along an x direction and a y direction, a top end of the vertical cable connected to the floating ball, a bottom end thereof connected to the digital package, the vertical cable arranged along a z direction and has a length less than water depth; and the underwater compass is fixed on the vertical cable; the submarine cables are provided with a plurality of sensor groups at equal intervals; each sensor group includes a vibrating sensor and a pressure sensor; the vertical cable is provided with a plurality of sensor groups at equal intervals; and each sensor group consists of two pressure sensors in parallel.



21: 2021/04276. 22: 2021/06/22. 43: 2021/07/29
51: A22C

71: Northeast Agricultural University

72: Xia Xiufang, Kong Baohua, Liu Qian, Du Xin, Dong Chunhui, Pan Nan, Shi Shuo, Li Haijing

54: METHOD FOR KEEPING RED SAUSAGE FRESH BY EDIBLE CHITOSAN COATING

00: -

The invention discloses a method for keeping red sausage fresh by edible chitosan coating. It is characterized in that pig leg meat and fat are taken as raw materials, and the sausage is prepared through the steps of raw material meat pretreatment, pickling, stuffing preparation, filling preparation, baking, boiling, preparing a coating solution and smoked by coating. In this study, aiming at the short storage time, easy deterioration of quality during storage, and environmental pollution caused by traditional vacuum plastic packaging, chitosan edible coating sausage was used instead of plastic packaging. Combined with the processing technology of sausage, the best chitosan coating concentration was determined by exploring the quality change of chitosan edible coating sausage during storage. On the premise of green and pollution-free, the method improves the quality characteristics of red sausage during storage, such as antioxidation and bacteriostasis, and has important application value.

21: 2021/04277. 22: 2021/06/22. 43: 2021/07/29
51: C12Q

71: North China University of Science and Technology

72: Cui Lihua, Du Wenran, Feng Fumin

33: CN 31: 202011517202.5 32: 2020-12-21

54: CIRCNA DETECTION KIT FOR AUXILIARY DIAGNOSIS OF AUTISM

00: -

The invention discloses a circRNA detection kit for auxiliary diagnosis of autism which belongs to the technical field of RNA detection. The kit provided by the present invention for auxiliary diagnosis of autism successfully realized rapid, sensitive and specific detection of the autism marker hsa_circ_0004566 by first extracting the total RNA of the sample to be detected, then performing the circRNA reverse transcription and qPCR on the obtained reverse transcription product to detect the relative expression of the target circRNA. The kit for auxiliary diagnosis of autism provided by the present invention can detect autism markers in a non-invasive (brain tissue) and biologically objective manner, and can identify children with autism early and assist in the diagnosis of autism and intervene in a timely manner. It has great clinical value and socio-economic significance on intervention and treatment.

21: 2021/04278. 22: 2021/06/22. 43: 2021/07/29
51: E21F

71: Anhui University of Science and Technology
72: Wang Bin, Cheng Hua, Rong Chuanxin, Yao Zhishu, Cai Haibing, Wang Zongjin

54: FREEZING PIPE AND ITS ARRANGEMENT METHOD FOR INCLINED SHAFT UNDER FAST DIGGING CONDITIONS OF ROADHEADER

00: -

The present invention discloses a freezing pipe and its arrangement method for a inclined shaft under speedy drivage conditions of a roadheader, and relates to the technical field of mine construction. The first freezing assembly includes a first tube body and a second tube body, one end of the first tube body is set inside the second tube body, the other end of the first tube body is set outside the second tube body, the first tube body is provided with a first opening, the second tube body is provided with a first confinement cavity and a second confinement cavity, the first confinement cavity is provided with a second opening, the second confinement cavity is provided with a third opening, the second freezing assembly includes a third tube body and a fourth tube body, one end of the third tube body is set inside the fourth tube body, the other end of the third tube body is set outside the fourth tube body, the third tube body is provided with a fourth opening, the fourth tube body is provided with a third confined

cavity, the third confined cavity is provided with a fifth opening, and the third confined cavity is provided with insulation material; thus solving the problem of low construction efficiency and safety hazards in the inclined shaft digging task in the prior art.

21: 2021/04280. 22: 2021/06/22. 43: 2021/07/29
51: C07K

71: Binhui Biopharmaceutical Co., Ltd.

72: LIU, Binlei, WANG, Runyang

33: CN 31: 202011265931.6 32: 2020-11-13

54: BISPECIFIC SINGLE-CHAIN ANTIBODY AND APPLICATION

00: -

The present disclosure provides a bispecific single-chain antibody and application. The antibody named BiTEs-PD-L1 is a bispecific antibody capable of simultaneously binding CD3 and PD-L1 on the surfaces of tumor cells, and when the BiTEs-PD-L1 enters a body and is bound with the T cells, the T cells can be effectively activated, and the T cells are guided to kill the tumor cells. When BiTEs-PD-L1 is bound with the tumor cells, the tumor cells can be exposed, the T cells are attracted to kill the tumor cells, meanwhile, immunosuppression of PD-1/PD-L1 can be relieved, and depletion of the T cells is delayed. The oncolytic virus oHSV2-BiTEs-PD-L1 is further developed by utilizing the BiTEs-PD-L1, the oncolytic virus carrying the BiTEs-PD-L1 gene can specifically proliferate in the tumor cells, the oncolytic virus has the characteristics of high safety and simple preparation process, the half-life period of the BiTEs-PD-L1 in an organism is prolonged, and the administration frequency and the administration dosage are reduced.

21: 2021/04308. 22: 2021/06/22. 43: 2021/07/22
51: H02M

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY

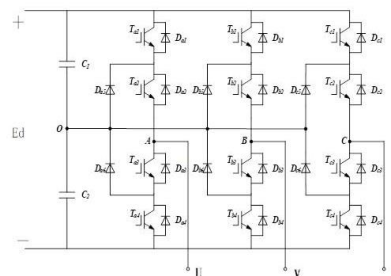
72: XIAO YU, SHUXIN YANG, BING XIA, ENJIE DING, XUNXUN WANG

54: METHOD FOR IGBT OPEN-CIRCUIT FEATURE ANALYSIS AND DEEP LEARNING FAULT DIAGNOSIS OF THREE-LEVEL INVERTER

00: -

The present invention relates to the technical field of mechanism detection, in particular to a method for fault state current signal feature analysis and LSTM

(Long Short Term Memory) deep learning fault diagnosis of a three-level inverter. In view of this, a CEEMDAN (Complete Ensemble Empirical Mode Decomposition with Adaptive Noise) method is used for the time-frequency analysis of a three-phase current signal outputted by an inverter in the present invention; and a feature sensitivity analysis method ARFFI (Random Forest-feature Importance) based on the adjusted Rand index (ARI) and the random forest (RF) is proposed and combined with NPE (Kernel Principal component analysis) and LSTM algorithms to construct an IGBT open-circuit fault model of a three-level inverter. The experimental results show that the proposed method can effectively improve the IGBT open-circuit fault state recognition accuracy.



21: 2021/04351. 22: 2021/06/24. 43: 2021/07/02
51: H04W

71: MARRIWALA, Nikhil, PANDA, Sunita, SREENIVASU, Sirasanagondla Venkata Naga, NAINWA, Ashish, MALIK, Gorav Kumar, GURIKAR, Ayyanna, KY, Prashanth, SINGH, Chandra, JANGRA, Amrith, SHANDILYA, Smita, SAIRAM, Kanduri Venkata Satya Siva Subrahmanya Surya, MALIK, Kamal

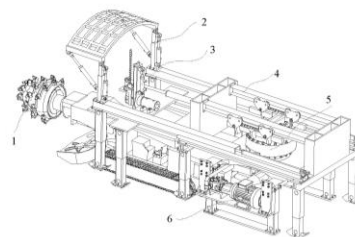
72: MARRIWALA, Nikhil, PANDA, Sunita, SREENIVASU, Sirasanagondla Venkata Naga, NAINWA, Ashish, MALIK, Gorav Kumar, GURIKAR, Ayyanna, KY, Prashanth, SINGH, Chandra, JANGRA, Amrith, SHANDILYA, Smita, SAIRAM, Kanduri Venkata Satya Siva Subrahmanya Surya, MALIK, Kamal

54: METHOD AND SYSTEM FOR ENERGY DETECTION

00: -

The present invention generally relates to an energy detection system and method based on estimation of noise uncertainty for cognitive radio. The system comprises a bandpass filter for passing certain amount of frequency upon filtering nonessential frequency from received signal by primary user; a

fast Fourier transform unit for obtaining Fourier transform of the filtered signal; a squaring summing device configured for summing thereby squaring Fourier transformed signal to calculate the average energy; and a threshold device in continuation with the squaring summing device for comparing resulting signal with predetermined thresholds and thereafter deciding hypothesis.



21: 2021/04393. 22: 2021/06/25. 43: 2021/07/30
51: E21C

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: WANG, Pengyu, SU, Guoyong, GUO, Yongcun, HU, Kun, DENG, Haishun, CHENG, Gang, WANG, Shuang, LI, Deyong

33: CN 31: 202110503524.2 32: 2021-05-10

54: SUPPORT SUSPENSION TYPE TUNNELING-ANCHORING-SUPPORTING OPERATION PLATFORM

00: -

The present invention relates to a support suspension type tunneling-anchoring-supporting operation platform. The platform is composed of a tunneling machine, an advanced supporting system, an anchoring system, a walking frame outer-support assembly, a walking frame inner-support assembly, a hydraulic power system and the like. An alternating walking moving principle is adopted, and the hydraulic power system is provided, so that the self-moving walking of the support suspension type tunneling-anchoring-supporting operation platform can be realized. A pair of rotary pushing hydraulic cylinders are installed on a rotary table in a staggered manner, so that the rotational motions of the walking frame outer-support assembly and the walking frame inner-support assembly can be pushed, and the deflection movement of the support suspension type tunneling-anchoring-supporting operation platform can be further realized.

21: 2021/04533. 22: 2021/06/29. 43: 2021/07/22
51: B22C; G01N

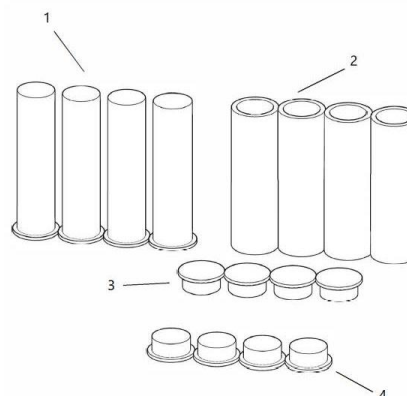
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: QIDING JU, YOUBIAO HU, QIMENG LIU, YU LIU, TAIFENG HU

54: SIMILAR MATERIAL PROPORTIONING SAMPLE DEMOULDING DEVICE

00: -

A similar material proportioning sample demoulding device, which relates to the field of mining engineering. To achieve the above purpose, the utility model designs a similar material proportioning sample demoulding device, comprising: a standard mould, a mould extractor and compaction covers. The standard mould is mainly formed by welding a plurality of hollow cylinders together and characterized by being used for assembling proportioning samples. The mould extractor is mainly formed by welding a plurality of solid cylinders together according to an aperture of the standard mould, and mainly used for taking out the samples in the standard mould. The compaction covers are used for compacting the samples uniformly placing in the standard mould.



21: 2021/04534. 22: 2021/06/29. 43: 2021/07/22
51: B01D; C02F

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: CHEN, JUN, MIN, FANFEI, SUN, YU, LIU, LINGYUN, LING, YUNJIA

54: METHOD FOR HYDROPHOBIC AGGREGATION SETTLEMENT AND CLARIFICATION OF COAL SLURRY WATER

00: -

The present invention relates to a method for settlement and clarification of coal slurry water of a coal preparation plant and particularly coal slurry water. The current invention comprising the following steps: firstly, measuring a concentration of the coal slurry water by a drying method. Secondly, adjusting the pH value of the coal slurry water to a reasonable range. Thirdly, determining the amount of a cationic hydrophobic surfactant to be added according to tests to add the cationic hydrophobic surfactant into the coal slurry water, fully mixing materials to conduct hydrophobization on the surfaces of coal slurry particles and condensing under the action of hydrophobicity to form hydrophobic agglomerates, to settle the hydrophobic agglomerates of the coal slurry water. Lastly, detecting concentration of clarified water and if larger than 1g/L, adding a small amount of anionic flocculant until the concentration of the clarified water is smaller than 1g/L.

21: 2021/04547. 22: 2021/06/30. 43: 2021/07/22
51: E21B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, CCTEG CHONGQING RESEARCH INSTITUTE

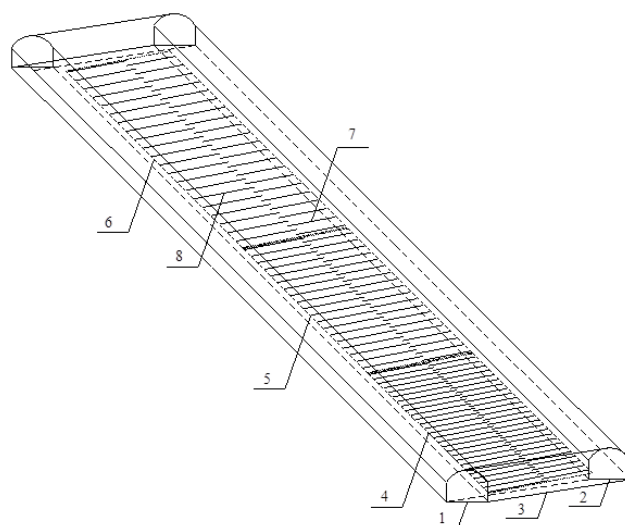
72: NIU, XINGANG, SHI, BIMING, ZHANG, ZHIGANG, LIU, XIAO, ZHANG, YONGJIANG, ZHAO, YI, MENG, XIANZHENG, CAO, JIANJUN, LIU, JUN, GUO, LINDONG, LI, SIQIAN, WANG, ZHONGHUA, YANG, HUIMING, LU, ZHANJIN, LI, SHENGZHOU, XU, ZUNYU, LI, CHENGCHENG, YUAN, BENQING, XU, JUNJIAN

54: METHOD FOR DYNAMICALLY ADJUSTING BEDDING PRE-DRAINAGE BOREHOLE DISTRIBUTION PARAMETERS

00: -

The present invention relates to the technical field of coal mining, and particularly relates to a method for dynamically adjusting bedding pre-drainage borehole distribution parameters. The present invention comprises the following steps: firstly, constructing downward boreholes of different

borehole spacing in parallel along dip of a coal seam. Secondly, in a transport forward channel of the working face, constructing upward boreholes of different borehole spacing in parallel along the dip of the coal seam. Thirdly, respectively arranging gas drainage pipelines on coal wall sides of the transport forward channel and the air return forward channel close to the working face. Lastly, grouting the upward and downward boreholes closed and switching on the drainage system to conduct gas drainage. A gapless junction distance of the boreholes in the coal seam is 10 or more meters with borehole length more than 1/2 of a length of the working face.



21: 2021/04549. 22: 30/06/2021. 43: 2021/07/22
51: B01D; B60K; F02M

71: FUEL ACTIVE LIMITED

72: JAMES, Michael John, BATEMAN, Paul Graham
33: GB 31: 1900419.1 32: 2019-01-11

54: FUEL PICK-UP DEVICE

00: -

A fuel pick-up device (10) for a fuel tank (13) has a head (11) for fitting to a wall of the tank (13), and an elongate body (14) which extends from the head (11) into the tank (13). A water separator disposed in body understood an axially-extending separation chamber (18), and a vane (21) for creating a helical flow of fuel flowing through the chamber between an inlet (17) and an outlet (23), in the fuel entering the separation chamber through the inlet (17) moves radially outwardly in the helical flow away from the outlet (23), the outlet (23) being arranged such that fuel drawn from the chamber (18) is substantially

free of water. Water separated from the fuel is collected in a chamber (25) and can be removed via a drain (24).

21: 2021/04573. 22: 30/06/2021. 43: 2021/07/06
51: H04W

71: NANJING LES CYBERSECURITY AND INFORMATION TECHNOLOGY RESEARCH INSTITUTE CO. LTD.

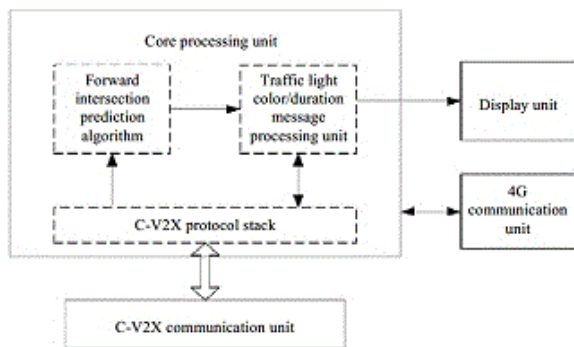
72: WANG, HONGSHAN, MAN, QINGSHAN, DING, WEIHAO, BEN, WEI, ZHENG, WENCHAO, CUI, JIANSUN

33: CN 31: 201910827745.8 32: 2019-09-03

54: VEHICLE-MOUNTED TERMINAL CAPABLE OF DISPLAYING TRAFFIC LIGHT INFORMATION OF INTERSECTION AHEAD IN REAL TIME

00: -

Disclosed is a vehicle-mounted terminal capable of displaying traffic light information of an intersection ahead in real time, comprising a core processing unit, a C-V2X communication unit, a 4G communication unit, and a screen display unit. The core processing unit obtains, by means of the C-V2X communication unit, real-time vehicle GPS information, the number of an intersection ahead, and the traffic light color duration message corresponding to the number of the intersection ahead, and sends to the screen display unit the real-time vehicle GPS information, the number of the intersection ahead, and the traffic light color duration message corresponding to the number of the intersection ahead for display. The 4G communication unit is connected to the core processing unit to provide network services.



21: 2021/04574. 22: 30/06/2021. 43: 2021/07/06
51: G06K; G06N

71: NANJING LES CYBERSECURITY AND INFORMATION TECHNOLOGY RESEARCH INSTITUTE CO. LTD.

72: BAI, ZHENG, WANG, WEIZHEN, DUAN, RAN, SUI, YUAN, SHEN, CHANGLI

33: CN 31: 201910687682.0 32: 2019-07-29

54: SHIP-TYPE-SPOOFING DETECTION METHOD EMPLOYING ENSEMBLE LEARNING

00: -

A ship-type-spoofing detection method employing ensemble learning, the method comprising: performing data cleaning on historical ship data and performing type adjustment thereon; performing feature selection and format conversion, performing feature generation using a sliding window, and performing feature normalization; selecting and configuring a classifier, and configuring an evaluation function of the classifier; and determining and monitoring a target ship-type in real time. The method employs historical ship trajectory messages to train and generate a model for ship-type determination and detection, and can be used to determine and monitor a target ship-type in real time and issue an alert about a suspected type-spoofing target, thus helping the maritime department to promptly discover type-spoofing ship targets.



21: 2021/04650. 22: 2021/07/05. 43: 2021/07/14
51: B01D

71: MALVIYA, Rishabha, MISHRA, Prem Shankar, MISHRA, Rakhi

72: MALVIYA, Rishabha, MISHRA, Prem Shankar, MISHRA, Rakhi, FULORIA, Neeraj Kumar,

SUNDARAM, Sonali, FULORIA, Shivkanya, SUBRAMANIYAN, Vetrivelan, MEENAKSHI, Dhanalekshmi Unnikrishnan, BAJAJ, Sakshi, MENDIRATTA, Ajay, ISLAM, Mojahidul, TIWARI, Richa, DHAMIJA, Koushal

54: AN AIR-COOLING DEVICE WITH SMART ANTIMICROBIAL FEATURES

00: -

The present invention generally relates to an air-cooling device (100) with smart antimicrobial features and its working method thereof. The present invention's device (100) deploys a set of filters (104, 106, 108) which work together to deliver coolest air, in its purest form. It is well equipped with air inlet which provides entrance for air from air conducting zone then the air will pass through a small internal chamber where it is exposed to UV light. The UV light on an air purifier uses the UV-C spectrum of ultraviolet light to inactivate airborne pathogens and microorganisms. A cooling chamber (110) is positioned after the set of filters for cooling the filtered air and thereafter releasing fresh and purified air via an outlet.

21: 2021/04651. 22: 2021/07/05. 43: 2021/07/14
51: G01N

71: KUMAR, Gottapu Santosh, PRASHANTI, Gottapu

72: KUMAR, Gottapu Santosh, PRASHANTI, Gottapu

54: A SYSTEM AND A METHOD FOR EVALUATING COMPRESSION STRENGTH OF A MATERIAL

00: -

The present disclosure relates to a system and a method for evaluating compression strength of a material. The addition of steel fibres in SIFCON significantly increased the compressive strength. The compressive strength obtained has gradually increased with the curing period i.e, from 7 to 91 days. On comparison of addition of 8%, 10% and 12% steel fibres in concrete, 12% fibre showed the optimum value in compressive strength for all the curing periods. There is a variation in the rate of increase of the compressive strength is large at the early stage of curing period and later the rate of increase of strength has decreased. This is because the hydration process gets slowed down as the curing age progresses from 28 days to 98 days. The application of Levenberg-Marquardt based neural

network models and Polynomial Curve fitting for predicting the compressive strength of SIFCON has been demonstrated.

21: 2021/04652. 22: 2021/07/05. 43: 2021/07/14
51: C04B

71: KUMAR, Gottapu Santosh, PRASHANTI, Gottapu, SREELAKSHMI, Koduri

72: KUMAR, Gottapu Santosh, PRASHANTI, Gottapu, SREELAKSHMI, Koduri

54: A PROCESS FOR PREPARING SLURRY INFILTRATED FIBRE CONCRETE

00: -

The present disclosure relates to a process for preparing SIFCON and predicting its compressive strength using manufactured sand. A process for preparing SIFCON and predicting its compressive strength using manufactured sand, said process comprises the following steps: replacing fibers randomly in horizontal layers in a cubic mold; blending cement and aggregates together in a dry condition; mixing water with superplasticizer and gradually adding to cement mixture to prepare a homogeneous mortar; preparing 32 samples containing three different steel fibre contents (8, 10 and 12% by volume); infiltrating prepared mortar slurry into fibers which is already preplaced in cubic molds; applying soft vibration to slurry infiltrated fibrous concrete (SIFCON) samples to make sure that matrix completely surrounds fibers; keeping specimens undisturbed for 24hrs until demolding is done; and placing specimens in water at 20°C in sections till 7th, 28th, and 56th day and thereafter drying specimens in air.

21: 2021/04690. 22: 2021/07/05. 43: 2021/08/05
51: C07D; C09K; G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

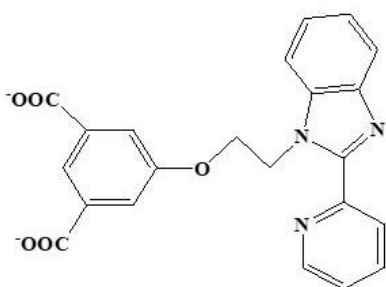
72: LI, Xiaonan, HUANG, Xinhua, HU, Jinsong
33: CN 31: 202011280300.1 32: 2020-11-16

54: FLUORESCENT CADMIUM METAL ORGANIC COMPLEX AS WELL AS PREPARATION METHOD AND APPLICATIONS THEREOF

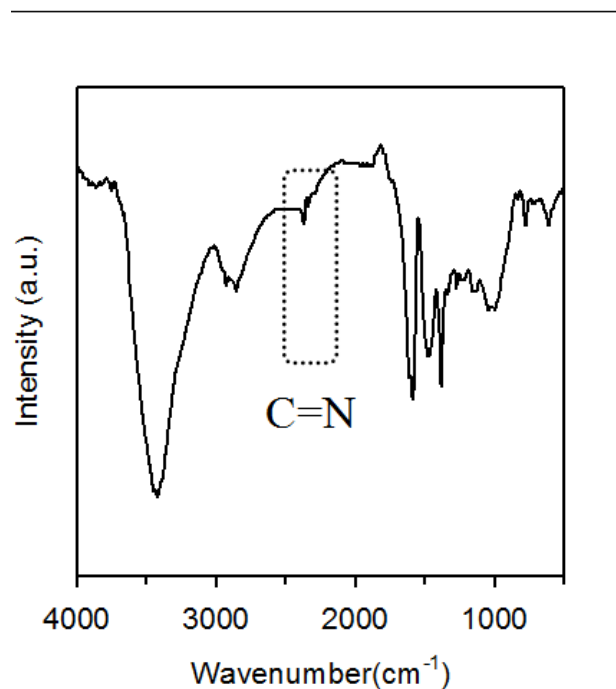
00: -

The present invention relates to the technical field of complexes, and particularly relates to a fluorescent cadmium metal organic complex as well as a preparation method and applications thereof. A fluorescent cadmium metal organic complex, having

a chemical formula of $[\text{CdL}(\text{H}_2\text{O})]2 \cdot \text{H}_2\text{O}$, wherein L is [1-{2-(2-pyridyl)-benzo[d]imidazole}-2-(5-hydroxyisophthalic acid) ethane] anion; the fluorescent cadmium metal organic complex belongs to a monoclinic system, C2/c space group; and cell parameters are as follows: $a=12.109(3)\text{\AA}$, $b=22.116(5)\text{\AA}$, $c=16.409(3)\text{\AA}$, $\alpha=90.00^\circ$, $\beta=103.248(6)^\circ$, $\gamma=90.00^\circ$ and $V=4277.4(16)\text{\AA}^3$ comprising the step of adding [1-{2-(2-pyridyl)-benzo[d]imidazole}-2-(5-hydroxyisophthalic acid) ethane] and a cadmium salt into a mixed solution of N,N'-dimethylformamide and water; uniformly stirring the solution to react in a stainless steel reactor with a polytetrafluoroethylene liner at $90\text{--}110^\circ\text{C}$ for 40-72 h; cooling, filtering, washing and drying the solution after the reaction is ended, thereby obtaining the fluorescent cadmium metal organic complex.



continuously sealing the reactor, and conducting stirring for reaction to obtain a mixed material. Lastly, conducting centrifugation on the mixed material, then decanting a supernate, and conducting washing, purification and drying to obtain the size-controllable polytriazinyl polymer nanoparticle.



21: 2021/04698. 22: 2021/07/06. 43: 2021/08/05
51: C08K

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: HUANG, XINHUA, LI, XIAONAN

54: CONTROLLABLE PREPARATION FOR POLYTRIAZINYL POLYMER NANOPARTICLES

00: -

The present invention relates to the technical field of polytriazinyl nanoparticles, in particular to a controllable preparation for polytriazinyl polymer nanoparticles. A polytriazinyl polymer nanoparticle proposed by the present invention is prepared from the 2, 6-diaminopyridine and the formalin through reaction with polytriazinyl. The controllable preparation for polytriazinyl polymer nanoparticles of the present invention comprises the following steps: firstly, putting the 2, 6-diaminopyridine into a reactor, adding deionized water, sealing the reactor, conducting stirring for dissolution, adding the formalin after the 2, 6-diaminopyridine is dissolved,

21: 2021/04805. 22: 2021/07/09. 43: 2021/08/12

51: E21F; G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

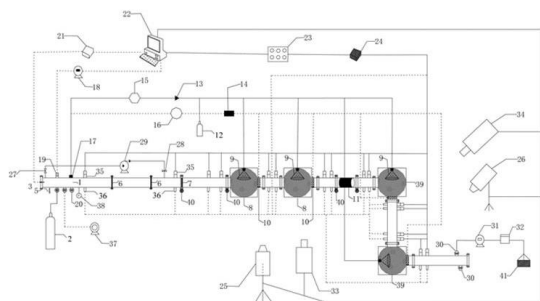
72: ZHOU HUI, MU CHAOMIN, LI CHONGQING, LIU WEI, HUANG QIANG, FU QIANG, Jiao Zhenhua

54: TEST SYSTEM AND TEST METHOD FOR GAS AND COAL DUST EXPLOSION OF COAL MINE

00: -

A test system for gas and coal dust explosion of a coal mine, comprising an explosion pipe network system, an air distribution system, an ignition system, an explosion suppression system, a data acquisition system and a monitoring system, wherein the present invention can quantitatively research the suppression effect of the combined pseudo-random polygonal reticular shell structure for the gas explosion and the secondary explosion of the deposited coal dust caused by the gas explosion under different gas explosion concentrations, and the suppression effect of different placement positions and different physical spatial geometric

parameters of the combined pseudo-random polygonal reticular shell structure for the gas and coal dust explosion; and moreover, the present invention is easier to distinguish whether the gas explosion causes the secondary explosion of the coal dust, more intuitive in result, simple and efficient in system operation and convenient in popularization.



21: 2021/04846. 22: 2021/07/12. 43: 2021/08/11
51: E02D

71: China University of Petroleum (East China)
72: Qiu Longwei, Dong Daotao, Meng Fanchao, Yang Yongqiang

54: FULL-TIME OPEN INTERACTIVE GEOLOGICAL TEACHING LABORATORY SYSTEM

00: -

The invention discloses a full-time open interactive geological teaching laboratory system, which comprises a laboratory equipment management subsystem, a laboratory reservation subsystem, an experiment management subsystem, a laboratory safety subsystem, a first communication module, a second communication module and a mobile terminal. The laboratory reservation subsystem is connected with the laboratory safety subsystem through the first communication module. The experiment management subsystem is connected with the mobile terminal through the second communication module, and the laboratory safety subsystem is connected with the mobile terminal through the second communication module.

Students can use their spare time to make an appointment in the laboratory for experiments, and experimental instructors can conduct experimental guidance and maintain experimental discipline without going to the laboratory remotely, thus

realizing the full-time opening of the teaching laboratory.

21: 2021/04865. 22: 12/07/2021. 43: 2021/07/29

51: A61B; F16M; H04M

71: NANTONG UNIVERSITY

72: LIU, Zhan, QIU, Yihua, CHEN, Zhong, PENG, Yuping, XU, Fenfen

54: PHOTOGRAPHIC BRACKET USED ON OPHTHALMIC SLIT LAMP MICROSCOPE

00: -

Provided is a photographic bracket used on an ophthalmic slit lamp microscope, comprising a fixing clip (1) fixed on the elbow of the slit lamp microscope, the fixing clip being connected to a mobile phone holder (3) by means of an easily bendable connecting tube (2); the mobile phone holder comprises a base (6), the bottom of the base being provided with a threaded hole connected to the other end of the connecting tube; the base is provided with a mobile phone left-side position limiter (7) and mobile phone right-side position limiter (8); the mobile phone right-side position limiter and the base are integrated; an electric screw mechanism (9) is disposed at the bottom of the mobile phone left-side position limiter; a screw nut is fixedly connected to the bottom of the mobile phone left-side position limiter; the mobile phone left-side position limiter is driven to move by means of the rotation of the screw; the base is provided with a mobile phone upper-side position limiter; the mobile phone upper-side position limiter (10) comprises a mobile phone upper-side position limiter outer casing (11) connected to the base and arranged vertically; the outer casing is provided with a mobile phone upper-side position limiter retractable part (12), and is also provided with a mobile phone upper-side position limiter retractable part positioning bolt (13) for fixing the position of the mobile phone upper-side position limiter retractable part. The photographic bracket can record the image under the observation lens in a timely manner, providing a basis for further analysis and diagnosis.

21: 2021/04878. 22: 12/07/2021. 43: 2021/07/29

51: A61L; B01D

71: GUANGZHOU JIUDI DIGITAL TECHNOLOGY CO., LTD.

72: PAN, Zhigeng, YANG, Wenzhen, HAN, Fengze, ZHAN, Jingzhou, LIANG, Yingtao, LIANG, Yinghong
33: CN 31: 201811619246.1 32: 2018-12-27

54: SCENT GENERATING DEVICE USING POWDERED FRAGRANCE

00: -

A scent generating device using powdered fragrance, comprising an air supply device (1), a scent mixing device (2), a feeding device (3) and a powder filtering device (4); the scent mixing device (2) included a mixing chamber (21), a turntable (22) disposed within the mixing chamber (21) and a first driving device (23) used for driving the turntable (22) to rotate; an output end of the air supply device (1) communicates with the mixing chamber (21), the feeding device (3) is mounted above the scent mixing device (2), an output end of the feeding device (3) communicates with the mixing cavity (21), and an input end of the powder filtering device (4) communicates with the mixing cavity (21). The turntable (22) within the scent mixing device (2) may separate a powdered fragrance that enters the mixing chamber (21) from the feeding device (3) such that the powdered fragrance may be fully mixed with air that enters the mixing chamber (21) from the air supply device (1), thereby greatly accelerating the process of the powdered fragrance scenting the air. The present invention solves the problem wherein a solid material scenting the air is passive and slow, and effectively solves the problem wherein it is difficult to change the scent within a short period of time. The powder filtering device (4) may filter out powder particles to avoid users feeling there is fine dust in the air. thereby greatly accelerating the process of the powdered fragrance scenting the air. The present invention solves the problem wherein a solid material scenting the air is passive and slow, and effectively solves the problem wherein it is difficult to change the scent within a short period of time. The powder filtering device (4)

may filter out powder particles to avoid users feeling there is fine dust in the air.

21: 2021/04879. 22: 12/07/2021. 43: 2021/07/29

51: A61L

71: GUANGZHOU JIUDI DIGITAL TECHNOLOGY CO., LTD.

72: PAN, Zhigeng, YANG, Wenzhen, HAN, Fengze, ZHAN, Jingzhou, LIANG, Yingtao, LIANG, Yinghong
33: CN 31: 201811619248.0 32: 2018-12-27

54: ODOR PRESENTATION DEVICE

00: -

An odor presentation device, comprising an odor emission device (1), at least two odor source supply devices (2), a cleaning liquid supply device (3), an odor mixing device (4), and a drive control device (5); the odor mixing device (4) comprises a mixing chamber having variable pressure and a plurality of interfaces that communicate with the mixing chamber, and the odor source supply devices (2) and the cleaning liquid supply device (3) communicate with the mixing chamber by means of the interfaces; an outlet of the mixing chamber is connected to the odor emission device (1), and the drive control device (5) is connected to a side of the mixing chamber and drives the pressure within the mixing chamber to change; and control valves are provided between the odor source supply devices (2) and the mixing chamber, as well as between the cleaning liquid supply device (3) and the mixing chamber. By means of the described device, a plurality of odors may be chosen for release, and a single odor or a mixture of multiple odors may be implemented, the odor being presented to users by means of the odor emission device; in addition, residual odors may be promptly removed by means of the cleaning liquid supply device so as to prevent the residual odors from affecting subsequent new odors.

21: 2021/05007. 22: 2021/07/16. 43: 2021/07/29

51: E21B

71: Central South University

72: Ma Chunde, Peng Kang, Wang Yeshun, Lv Zhihai, Wang Zihe

54: GAS PRODUCTION TEST SYSTEM AND METHOD FOR COAL AND ROCK SAMPLES UNDER ACTION OF TEMPERATURE AND PRESSURE

00: -

The present invention discloses a gas production test system for coal and rock samples under action of temperature and pressure. The system comprises a sample loading device and a gas collecting and monitoring device, wherein the sample loading device comprises a high-temperature triaxial gas production mechanism and a confining pressure loading mechanism; the high-temperature triaxial gas production mechanism comprises a sample assembly with a containing cavity for containing coal and rock samples, a triaxial chamber, an axial loading mechanism and a heating structure; and the gas collecting and monitoring device comprises a gas collecting pump which communicates with the containing cavity of the sample assembly, a metering structure and a gas sampling bag for collecting gas. Before testing, the overall system is vacuumized. The test system is utilized for simulating complicated geomechanics conditions of a natural coal bed in a laboratory, such as ground pressure and ground temperature conditions at different buried depths, so as to research the gas production rules of the coal and rock samples with different metamorphic degrees in the environment in different state phases of the coal bed gas, thereby being used for guiding actual production.

21: 2021/05008. 22: 2021/07/16. 43: 2021/07/29
51: A23L

71: Fujian Agriculture and Forestry University
72: Wu Chunhua, Tong Cailing, Pang Jie, Liu Jingwen, Lin Qingwei, Zhao Jianbo, Sun Jishuai

**54: INSTANT KONJAC GLUCOMANNAN
BUDDHA JUMPING WALL JELLY AND
PREPARATION METHOD THEREOF**

00: -

The invention discloses instant konjac glucomannan Buddha jumping wall jelly and preparation method thereof. The Buddha jumping wall jelly is prepared from abalone, sea cucumber, shark fin, tendon of pig, scallop, fish lip, dictyophora indusiata, chicken, duck, scallop meat, bones of pig, konjac glucomannan sol and seasoning, and the raw material composition and processing technology are adjusted at the same time, so that the prepared Buddha jumping wall jelly has delicate taste, rich nutrition, low calorie and high nutritional value. The Buddha jumping wall jelly has high nutritional value and can be eaten instantly, which could be suitable

for all ages. Compared with traditional cooked Buddha jumping wall products, it can be stored for a long time and has broad prospects for industrial production.

21: 2021/05010. 22: 2021/07/16. 43: 2021/07/29
51: C02F

71: Hubei Huinong Biological Technology Co., Ltd.
72: Enjui Hsu, Xianpin Cui

**54: AUTOMATIC SEWAGE TREATMENT SYSTEM
AND PREPARATION METHOD OF BIOLOGICAL
CARRIER**

00: -

The invention discloses an automatic sewage treatment system and a preparation method of biological carrier, comprising an automatic sewage treatment device and a biological carrier, wherein the automatic sewage treatment device comprises a housing; one side of the housing is provided with a sewage inlet, and the other side thereof is provided with a sewage outlet; the sewage inlet is installed on one side of a No. 1 biochemical pool; one side of the No. 1 biochemical pool is connected to a No. 2 biochemical pool through a connecting pipe; the other side of the No. 2 biochemical pool is connected to a No. 3 biochemical pool through the connecting pipe. The preparation method of biological carrier includes material selection, preservation, physical treatment, and cultivation.

21: 2021/05011. 22: 2021/07/16. 43: 2021/07/29
51: A23K

71: Lanzhou University
72: Wang Hucheng, Fu Xiaoyue, Hou Mingjie, Shang Zhanhuan, Wang Chen

**54: METHOD FOR IMPROVING FUNCTIONAL
COMPONENTS IN LAMB BY FEEDING SWEET
SORGHUM SILAGE DIET**

00: -

The invention discloses a method for improving functional components in lamb by feeding sweet sorghum silage diet, and relates to the technical field of lamb diet formulas. In the feed formula, the roughage are sweet sorghum silage and alfalfa pellets, and the composition of concentrate supplement by mass percentage is as follows: 41% of corn, 10% of bran, 32% of soybean meal, 5% of rapeseed meal, 1% of expanded urea, 1% of stone powder, 2% of salt and 8% of premix. The feeding management method is as follows: deworming

treatment is carried out on lamb pups before feeding; Feeding is carried out in a whole house, so that lamb can freely eat sorghum silage; The daily feeding amount is adjusted according to the feeding amount of lamb the day before; The concentrate supplement and alfalfa granules are fed twice according to 1% and 0.5% of animal weight and the lamb drink water freely and the pens are disinfected regularly. The method has that beneficial effect that the method has significant influence on the content of amino acids and fatty acid of lamb, and the method can promote the output of high-quality lamb which is beneficial to human health.

21: 2021/05012. 22: 2021/07/16. 43: 2021/07/29
51: G01N; G01V

71: Henan Lamor Quantum Technology Co., Ltd, Liu Mengyi, Zhang Junbin

72: Liu Mengyi, Zhang Junbin

54: NON-INVASIVE LONG-RANGE SUBSTANCE DETECTION DEVICE BASED ON EARTH'S FIELD NUCLEAR MAGNETIC RESONANCE

00: -

Disclosed is a non-invasive long-range substance detection device stemmed from the principles of the Earth's field nuclear magnetic resonance (EFNMR), by way of emitting powered excitation pulses of Lamor frequency (LF) calculated from the Earth's magnetic field (EMF) in the target-searching area and then measuring the corresponding resonance responses of the potential targets. Since the natural EMF is ubiquitous in and around the Earth, all nature's substances are immersed in it and potentially subject to its influences. Moreover, the EMF possesses favorable attributes of ultrahigh spatial homogeneity and temporal stability, which are ideal for EFNMR. Given that the magnitudes of the total EMF strength are close to 50 microT in China and most regions of the world, the resonance frequencies of all the magnetic nuclei of natural elements deservedly range from tens to about 3500 Hz, which lie in the ultralow range of audio frequency (AF) spectra. The present invention provides a compact substance-detecting and target locating device with characteristic features of non-invasive, non-destructive, and long-range detection for any substance, which can be potentially applied in mineral prospecting and exploration, environmental monitoring, archaeology and other relevant fields.

The detection mechanism of the present invention can be briefly described as follows: by emitting powered AF electromagnetic pulses with target's LF in the search area, the specific magnetic nuclei of potential targets resided in the search area would absorb the electromagnetic energy carried by the AF electromagnetic pulses and thus generate corresponding EFNMR responses that are manifested as distinct and detectable energy-absorbing power lines (EAPL) connecting the AF signal source and the potential targets; in the meantime, through probing and measuring the EAPL to determine directions and distances of the potential targets relative to the AF signal source, the targets can be eventually located remotely without tampering and disturbing the targets physically and chemically.

21: 2021/05013. 22: 2021/07/16. 43: 2021/07/29
51: G01N

71: Anhui University of Science and Technology
72: Huang Kun, Ma Qinyong, Ma Dongdong, Shi Yuhang

54: MULTIFUNCTIONAL UNIAXIAL TESTER FOR FROZEN SOIL AND INSTRUCTION FOR OPERATION

00: -

The invention discloses a multifunctional uniaxial tester for frozen soil, which includes a test base. A number of columns are respectively fixed on both sides of the top surface of the test base. A roof plate is fixedly connected with the top of columns and the top of the roof plate is fixedly connected with hydraulic cylinder. There is a test room on the top surface of test base. The test room is equipped with a temperature control system and a sample monitoring system. The outside of the test room is covered with a thermal insulation layer, and the middle of the test base is fixed with a sample base. By setting the temperature control system, the present invention measures change of temperatures with different heights in the test room which forms the gradient temperatures to simulate the temperature of frozen soil at different depths in natural surroundings, and can completely be the same as the gradient temperature in natural surroundings. At the same time, the water supplement system is used to simulate the working conditions of external water supplement, effectively

reflecting the mechanics of frozen soil in the real environment. Through the sample monitoring system, the internal structure of the sample, the unfrozen moisture content and the change law of temperature during the compression process are known, which is of great significance for the interpretation of the principles of mechanics.

21: 2021/05047. 22: 2021/07/19. 43: 2021/08/05
51: B23K

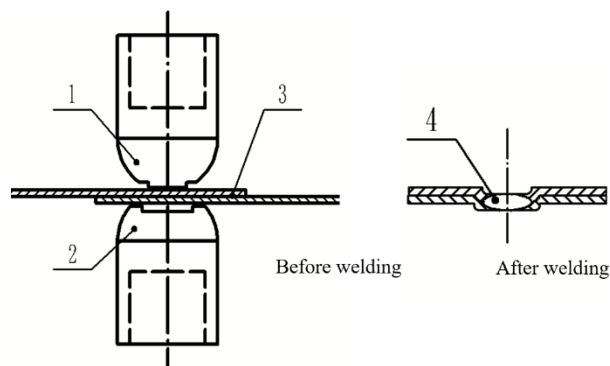
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHAO, DEWANG, JI, JIADONG, ZHAO, KUNMIN, XIE, JING

54: RESISTANCE SPOT WELDING CONNECTION METHOD FOR THIN PLATE AND ULTRATHIN PLATE

00: -

The present invention relates to the technical field of welding manufacturing, and particularly relates to a resistance spot welding connection method for a thin plate and an ultrathin plate. The present invention comprises the following steps: firstly, placing a plate between electrodes. At the prepressing stage, pressing the plate into a concave electrode by a convex electrode under pressure. Secondly, at a welding stage, melting and softening the plate under the action of resistance heat, making the plate interface form metallurgical bonding to form connection under the action of melting, making the plate filled in the concave electrode under the pressure of the convex electrode, and making the welding point edge form interlocking under the squeezing action of the outer edge of the convex electrode and the inner edge of the concave electrode. Lastly, at a cooling crystallization stage, finishing energization, maintaining pressure, and forming interlocking resistance spot welding points.



21: 2021/05048. 22: 2021/07/19. 43: 2021/08/05
51: B23K

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHAO, Dewang, JI, Jiadong, ZHAO, Kunmin, XIE, Jing

54: CERAMIC-CORE ANNULAR COPPER ELECTRODE AND RESISTANCE SPOT WELDING METHOD THEREOF

00: -

The present invention relates to the technical field of welding manufacturing, and particularly relates to a ceramic-core annular copper electrode and a resistance spot welding method thereof comprising ceramic-core annular copper electrode, wherein a main body of the copper electrode has an annular end surface; the center of the annular end surface is a ceramic core end surface; the ceramic core end surface is formed by embedding a ceramic core with a certain height into the main body from the center of the annular end surface of the main body; and the ceramic core end surface is flush with the annular end surface.

21: 2021/05049. 22: 2021/07/19. 43: 2021/07/23
51: A46D

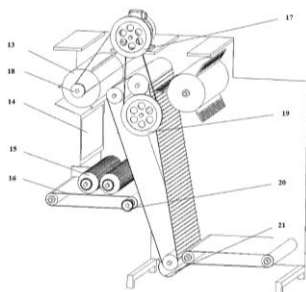
71: QINGDAO UNIVERSITY OF TECHNOLOGY

72: WANG, Xiaoming, LI, Changhe, JI, Heju, XING, Xudong

54: AUTOMATIC WOOL FEEDING MACHINE

00: -

The present invention discloses an automatic wool feeding machine. It has the beneficial effects of compact structure and high transmission efficiency and can monitor changes in the swing angle of a hoisting weight in real time and feed data back for adjustment. The solution is as follows: the automatic wool feeding machine comprises an input curtain arranged on a frame, a toenail curtain is obliquely arranged on an output end of the input curtain is, a wool equalizing rake for tearing raw materials uniformly is arranged on one side of the toenail curtain, a longitudinal cross section of the toenail curtain is triangular, a stripping roller is mounted on the other side of the toenail curtain opposite to the wool equalizing rake, an output curtain is mounted below the stripping roller, and a pressing roller for pressing raw materials is mounted above the output curtain.



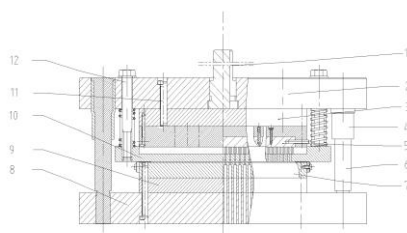
21: 2021/05050. 22: 2021/07/19. 43: 2021/07/23
51: B29C

71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: ZHANG, Yanbin, LI, Changhe, WANG, Zhen, ZHAI, Han

54: MALE AND FEMALE INTEGRAL MOLD, MOLDS AND SYSTEM FOR SG ABRASIVE MICRO-COPY FORMING HOLES

00: -

The present invention discloses a male and female integral mold, molds and system for SG abrasive micro-copy forming holes. The integral mold comprises four identical integral male mold devices, the four integral male mold devices are spliced together to form a whole, each integral male mold device comprises a support plate, three rows of male mold units are arranged on the support plate, the first and third rows of male mold units completely correspond up and down, the second row of male mold units are staggered with the first and third rows of male mold units, and each male mold unit in the second row is located on a center line of the adjacent male mold unit in the first or third row. The overall size of the mold is designed according to the size of a machining material.



21: 2021/05056. 22: 2021/07/19. 43: 2021/07/29
51: A01K

71: Xiamen University

72: KE, Caihuan, WANG, Yi, LUO, Xuan, YOU, Weiwei, WANG, Xingze

54: METHOD FOR CHEMICALLY INDUCING ALLOTRIPLOID ABALONE

00: -

Disclosed is a method for chemically inducing an allotriploid abalone. The method includes the steps of: step 1, selection and accelerated maturation of broodstock; step 2, artificial induction; step 3, selection and treatment of gametes; step 4, synchronous fertilization; step 5, drug induction; step 6, drug removal; and step 7, hatching. Synchronous fertilization is ensured: gametes are strictly prevented from being exposed in advance in the discharging process, absence of unintended fertilization is confirmed through microscopic examination, and the consistency of synchronous fertilization with fertilized egg development is guaranteed. Induction conditions are optimized: 70%-80% of the PB1 proportion of fertilized eggs in a control group is determined as a treatment time node by constant microscopic observation, effective release of first polar bodies is guaranteed, and tetraploids and aneuploidies are avoided. The induction rate is stable and efficient: the triploid induction rate is 100% or close to 100%.

21: 2021/05057. 22: 2021/07/19. 43: 2021/07/29
51: B43L

71: Zhengzhou University of Aeronautics

72: WANG, Xiaodong, SHI, Limin, LI, Liang, MENG, Jintao, LI, Yonggang, ZHANG, Xinyue, LIU, Weifeng, HE, Xia

33: CN 31: 202110488200.6 32: 2021-05-06

54: MULTIFUNCTIONAL PLOTTER SPECIAL FOR ADVANCED MATHEMATICS IN UNIVERSITY

00: -

The present invention relates to the field of teaching technology and discloses a multifunctional plotter special for university advanced mathematics, comprising a pedestal, a rotating mechanism and an extension mechanism, wherein the rotating mechanism is used for driving the extension mechanism to revolve around the pedestal, and comprises a fixing post arranged on the pedestal, one side of the fixing post near the pedestal is provided with a rotating ring, and an outer side of the rotating ring is connected to the extension mechanism; the extension mechanism comprises a rotating plate, one end of the rotating plate is connected to the rotating ring, another end of the rotating plate is rotatably connected to an end of an

multi-link assembly, and another end of the multi-link assembly is rotatably connected to a marking unit. The present invention is applicable to a multifunctional plotter special for university advanced mathematics, and in the present invention, the extension mechanism and the rotating mechanism cooperate with each other, so that spatial positions of some three-dimensional articles can be measured. At the same time, when drawing operations are carried on some planar surfaces, it is possible to calculate length in real time, so operation and use of the plotter is more convenient, and can satisfy different needs during higher mathematics teaching in universities.

21: 2021/05058. 22: 2021/07/19. 43: 2021/07/29
51: G03G
71: XI AN TECHNOLOGICAL UNIVERSITY
72: Liu Huan, Du Yuxuan, Bai Yang, Zhao Jijie, Wen Shuai, Bai Minyu, Xie Fei, Tian Lulu, Liu Guanlin, Liu Weiguo

33: CN 31: 202110061715.8 32: 2021-01-18

54: METHOD FOR PREPARING A PHOTOCONDUCTIVE DEVICE BASED ON QUANTUM DOTS AND HIGH MOLECULAR POLYMERS

00: -

The present disclosure discloses a method for preparing a photoconductive device based on quantum dots and high molecular polymers, which is characterized in that the method comprises the following steps: preparing composite colloidal quantum dots of different sizes, and making them evenly distributed on the surface of a nanoimprint mold through electrostatic adsorption; applying the nanoimprint method to prepare a high molecular polymer nanopillar array with composite colloidal quantum dot films attached to the surface; preparing silver nanowire conductive films; preparing transparent high molecular polymer silver nanowire composite conductive film; finally, covering the high molecular polymer nanopillar array with the transparent high molecular polymer silver nanowire composite conductive film, and completing the device preparation. The present disclosure realizes a wide spectrum response to visible light and near-infrared bands by preparing composite colloidal quantum dot films of different sizes. The absorption rate of incident light is improved significantly by the high molecular polymer nanopillar array, thereby

achieving relatively high responsivity of the device. The preparation method of the present disclosure also has the advantages of low cost, simple and easy operation, and suitability for mass production.

21: 2021/05059. 22: 2021/07/19. 43: 2021/07/29
51: G06F
71: Qingdao Agricultural University
72: LU Jianbo

54: NEURAL NETWORK-BASED EDGE COMPUTING SYSTEM AND METHOD

00: -

The present invention provides a neural network-based edge computing system and method, including: a data collection node, a cloud platform, an edge computing node and a data center server. The data collection node, the edge computing node and the data center server are respectively connected to the cloud platform. The data collection node is used to collect data information and send the data information to the edge computing node through the cloud platform. The edge computing node is used to input data information into the neural network algorithm, obtain data processing results, and send the data processing results to the cloud platform. The cloud platform is used to send data processing results to the data center server or user terminal. After the data information is processed through the edge computing node, it is then sent to the data center server through the cloud platform, thereby alleviating the processing pressure of the data center server and improving the efficiency of data processing.

21: 2021/05068. 22: 2021/06/29. 43: 2021/07/23
51: H04L
71: NINGBO POLYTECHNIC
72: CHEN, Zizhen, CHEN, Yixuan

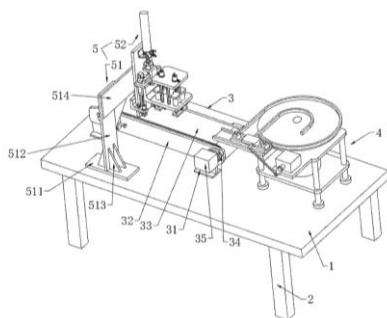
33: WO 31: PCT/CN2021/103033 32: 2021-06-29

54: INTELLIGENT AUTOMATIC DETECTION DEVICE FOR MOTOR COMMUTATOR

00: -

An intelligent automatic detection device for a motor commutator, belonging to the technical field of electromechanical devices, is disclosed. The device includes a detection platform, a conveying member, a charging member, and a detection member. A first air cylinder is initiated by adjusting a distance between a vertical pin and an abutting column to be

a qualified value. A free end of the first air cylinder drives an L-shaped moving plate to descend until a detection rod abuts against an inner bottom of the motor commutator. The detection rod pushes up a moving rod after being stressed, and then a panel connected to the moving rod pushes a detection end of a dial gage for depth detection to obtain data. A vacuum suction pipe blows air into an air bag. The air bag expands to the same size as the internal volume of the motor commutator.



21: 2021/05069. 22: 2021/02/01. 43: 2021/07/23
51: C22B

71: UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING

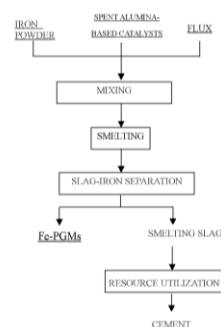
72: DING, Yunji, ZHANG, Shengen

33: CN 31: 202010835163.7 32: 2020-08-19

54: METHOD FOR PYROMETALLURGICAL CONCENTRATION OF PLATINUM GROUP METALS FROM SPENT ALUMINA-BASED CATALYSTS

00: -

The present application relates to the technical field of platinum group metals (PGMs) recovery, providing a method for pyrometallurgical concentration of platinum group metals from spent alumina-based catalysts. For an Al_2O_3 supported spent catalyst, a method for pyrogenic iron collection of platinum group metals is disclosed, using a $\text{CaO-Al}_2\text{O}_3\text{-Fe}_2\text{O}_3\text{-B}_2\text{O}_3$ slag system to achieve highly efficient concentration of platinum group metals via slag iron separation, avoiding $\text{CaO-MgO-Al}_2\text{O}_3\text{-SiO}_2$ slag system from producing poorly soluble platinum group metals-ferrosilicon alloys, increasing recovery of platinum group metals. The present application is characterized by low slag content, silicon-free Fe-PGMs alloy, high recovery efficiency and low cost, and is suitable for industrial production.



21: 2021/05070. 22: 2021/02/01. 43: 2021/07/23
51: C22B

71: UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING

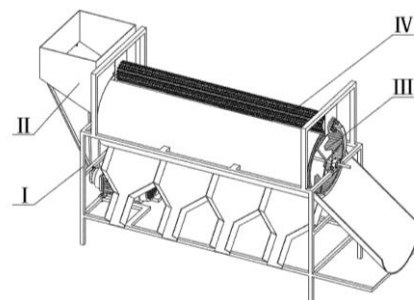
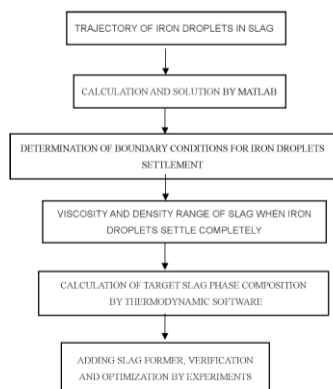
72: ZHANG, Shengen, DING, Yunji

33: CN 31: 202010631384.2 32: 2020-07-03

54: SLAG DESIGN METHOD FOR IRON TRAPPING OF PLATINUM GROUP METALS FROM SPENT CATALYSTS

00: -

The invention relates to the recycling of platinum group metals, and provides a slag design method for iron trapping of platinum group metals from spent catalysts. Based on the requirements of easy separation of a slag phase and an iron phase and a low content of platinum group metals in the slag, the ranges of viscosity and density of the slag phase when iron droplets settle completely are determined by analyzing the movement trajectory of the iron droplets in the smelting slag, and the slag type is simulated and determined by thermodynamic software. According to the principle of minimum slag, a slag former is added to design a slag type with a low melting point and a low viscosity of the slag phase, which improves the separation efficiency of slag and iron, reduces the content of platinum group metals in the slag and realizes efficient collection of platinum group metals.



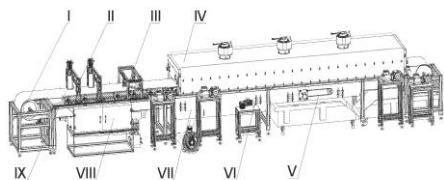
21: 2021/05071. 22: 19/07/2021. 43: 2021/07/23
 51: B07B
 71: QINGDAO UNIVERSITY OF TECHNOLOGY, RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: LI, Changhe, WANG, Xiaoming, MIAO, Guangzhen, WANG, Rong, LI, Xinping, TURDI, Tuluhon, GAO, Lianxing, YANG, Huimin, LIU, Mingzheng, ZHANG, Yanbin, HOU, Yali, MA, Yannan, JIA, Zhenming, FU, Hui, LI, Mingchen, FENG, Yitian, LU, Chunan
 33: CN 31: 2020102861142 32: 2020-04-13
54: CONVEYING AND SCREENING DEVICE, SPIRAL PUSHING TYPE PEANUT KERNEL GRADING MACHINE AND METHOD THEREOF
 00: -

The present invention belongs to the field of peanut processing technology, and provides a conveying and screening device, a spiral pushing type peanut kernel grading machine and a method thereof. The conveying and screening device comprises a conveying and screening drum, which is composed of at least two stages of drums with equal diameter; each stage of drum is uniformly surrounded by a number of round pipes, and the gap between the round pipes of each stage of drum is different; the drum near a feed port is a first-stage drum, the gap between the round pipes of the first-stage drum is the smallest, and the gap between the round pipes of the subsequent drum increases gradually compared with that of the previous drum. This device not only improves the conveying speed and grading efficiency, solves the problems of high-cost labor, slow manual screening, high labor intensity, etc.

21: 2021/05072. 22: 19/07/2021. 43: 2021/07/23
 51: B24D; C09K

71: QINGDAO UNIVERSITY OF TECHNOLOGY, QINGDAO SISA ABRASIVES CO., LTD.
 72: LI, Changhe, HUANG, Baoteng, ZHAI, Han, LU, Bingheng, CAO, Huajun, WANG, Zhen, ZHANG, Naqing, YANG, Min, ZHANG, Yanbin, HOU, Yali, LI, Runze, CUI, Xin, LIU, Mingzheng, GAO, Teng, WANG, Xiaoming
 33: CN 31: 2019109267523 32: 2019-09-27
54: PRODUCTION LINE OF CA ABRASIVE
 00: -

The present disclosure discloses a production line of a CA abrasive, including: a belt mold, the belt mold being provided with a cavity; a transmission device, configured to drive the belt mold to run; a slurry coating mechanism, configured to coat a slurry on a surface and into the cavity of the belt mold; a slurry scraping mechanism, configured to scrap the slurry coated on the surface of the belt mold into the cavity; a drying mechanism, configured to dry the belt mold so that the slurry is dried and precipitated into abrasive grains; a separation mechanism, arranged below the drying mechanism and configured to shake down the abrasive grains in the cavity of the belt mold by vibrating; a sweeping mechanism, configured to sweep slurry fragments of the belt mold after separation; and a release agent coating mechanism, configured to spray a release agent to the swept belt mold.



21: 2021/05090. 22: 2021/07/20. 43: 2021/08/11
51: A61G

71: Chuanlin Ji

72: Chuanlin Ji

33: CN 31: 202110400147.X 32: 2021-04-14

54: A MANDIBLE LIFTING DEVICE THAT PREVENTS GLOSSOPTOSIS

00: -

The invention discloses a mandible lifting device which can prevent glossoptosis, including a neck bracket, a lifting mechanism located on the neck bracket and a neck surrounding mechanism connected with the neck bracket. The lifting mechanism is used to hold the mandible and can move up and down relative to the neck bracket. The surrounding mechanism is surrounded at the back of the neck, and the circumference is set as an adjustable type, wherein, the lifting mechanism is provided with a buffer part attached to the side of the mandible to disperse the pressure between the mandible and the lifting mechanism; the neck bracket is provided with two, and is symmetrically distributed on the left and right sides of the lifting device; the two ends of the surrounding mechanism are respectively connected with two neck brackets. The invention solves the problem of discomfort and unadjustment in the process of lifting the mandible in the prior art, and can be widely used in the technical field of glossoptosis device.

21: 2021/05091. 22: 2021/07/20. 43: 2021/08/11
51: G01N

71: China University of Mining and Technology, Xuzhou Wushuo Information Technology Co., Ltd, Xuzhou Hongyi Technology Development Co., Ltd
72: Cao Anye, Liu Yaoqi, Wang Changbin, Xue Chengchun, Guo Wenhao, Wang Songwei, Bai Xianxi

54: ACOUSTIC EMISSION MONITORING UNIT FOR A TRUE TRIAXIAL MINING COAL AND ROCK DYNAMIC BEHAVIOR EXPERIMENT

00: -

The invention discloses an acoustic emission monitoring unit for a true triaxial mining coal and rock dynamic behavior experiment, which comprises a top and bottom plate clamp, a lateral non-unloading surface clamp, a lateral unloading surface clamp and an acoustic emission probe assembly. There are two clamps on the top and bottom plates, and each clamp comprises an acoustic emission probe assembly located at the center of the clamp; There are three lateral non-unloading surface clamps, and each clamp contains two diagonally arranged acoustic emission probe assemblies. The monitoring unit can not only directly contact the coal and rock mass for accurate monitoring, but also realize the functions of triaxial loading, pressure maintaining and one-side unloading, and can also accurately detect the micro-fracture events and clear waveforms of coal and rock mass during the loading period.

21: 2021/05092. 22: 2021/07/20. 43: 2021/08/11
51: C08L; G01N

71: Hainan Tropical Ocean University, Zhejiang University

72: Hu Yaqin, Mao Yunxiang, Chen Shiguo, Chen Jianchu

54: PH SENSITIVE FRESHNESS DETECTION SMART LABEL, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a pH sensitive freshness detection smart label, a preparation method and an application thereof, belonging to the field of intelligent food packaging. The pH sensitive freshness detection smart label takes bromocresol purple/methyl red as a color developing agent and polyvinyl alcohol/methyl cellulose as a film forming substrate. The polyvinyl alcohol and methyl cellulose in the invention have wide sources, are safe and degradable. Bromocresol purple and methyl red as common pH indicators can respond to different pH values. Therefore, the pH sensitive smart label prepared by bromocresol purple/methyl red can be used to accurately monitor and detect the freshness of food materials such as livestock, poultry and

aquatic products in real time to ensure the quality and safety of food.

21: 2021/05093. 22: 2021/07/20. 43: 2021/08/11
51: A01G

71: Biotechnology Research Center, Shandong Academy of Agricultural Sciences

72: Li Guanghui, Wang Xingjun, Hou Lei, Zhao Chuanzhi, Zhao Shuzhen, Pan Jiaowen, Li Aiqin

54: RATOON CULTIVATION METHOD OF ASPARAGUS BY WATER AND FERTILIZER INTEGRATED INFILTRATION IRRIGATION

00: -

The invention provides a ratoon cultivation method of asparagus by water and fertilizer integrated infiltration irrigation. The method comprises the steps of seedling raising, rain-proof shed construction, preparation before planting, field planting, ratoon cultivation by water and fertilizer integrated infiltration irrigation, asparagus harvesting and disease prevention and control. The step of ratoon cultivation by water and fertilizer integrated infiltration irrigation includes laying water transmission pipes: fertilizer and water are uniformly applied to the soil layer with a depth of 25-55 cm.

The step also includes accurate water management: the relative water content of 30 cm soil layer is maintained at 60%-65% in asparagus harvesting period and 65%-70% in vegetative growth period.

The step further includes formula fertilization: accurate fertilization is carried out according to the fertilizer demand of asparagus in each growth stage. By adopting the invention, asparagus root system is mainly distributed in the soil layer of 25-55 cm, and the main root layer moves down by 10-15 cm, thus reducing the degree of root injury. Compared with the prior art, the method saves water by 70%-80%, fertilizer by 50%-60%, chemical dosage by 60%-70%, and asparagus yield by 20%-30%.

21: 2021/05095. 22: 2021/07/20. 43: 2021/08/11
51: C12N; C12Q

71: ZHANG, Ying, QIN, Feng, WANG, Xiaolu, SU, Changqing

72: ZHANG, Ying, QIN, Feng, WANG, Xiaolu, SU, Changqing

54: METHOD FOR INVESTIGATING MOLECULAR MECHANISM UNDERLYING HEPATOMA CELL INVASION AND METASTASIS

00: -

The present disclosure sets forth a method for investigating a molecular mechanism underlying hepatoma cell invasion and metastasis. The method includes the following steps of: collecting human hepatoma cells SMMC-7721 and MHCC-97H, normal human liver cells WRL-68, hepatic stellate cells (HSC), and vascular endothelial cells ECV304, extracting total RNA, detecting the expression of a plurality of microRNAs by using real-time PCR technology, comparing the expression levels of cancer cells versus normal cells, and selecting a group of specific microRNAs; constructing intervention vectors based on sequences of specific microRNAs selected, and transfecting SMMC-7721, MHCC-97H, WRL-68, HSC, and ECV304. A new perspective on the occurrence of metastasis of hepatocellular carcinoma is set forth to facilitate the screening of interventional treatment strategies for target genes of miRNAs and to prevent the invasion, metastasis, and recurrence of the hepatocellular carcinoma.

21: 2021/05251. 22: 2021/07/26. 43: 2021/08/04
51: G01N

71: Jiangxi University of Science and Technology, Xinyu Iron and Steel Co., Ltd., Shanghai Dianji University

72: Zhang Zhenming, Lai Chaobin, Feng Xiaoming, Shuai Yong, Liu Jianfeng, Jiang Pingguo, Liao Chunfa, Luo Diqiang, Sun Lefei, Cao Ruihong, Liu Min, Yang Fan

54: LAYOUT OF BLOWHOLES IN ASCENDING PIPE OF RH REFINING FURNACE

00: -

The invention relates to an gas supply structure of an RH refining furnace, in particular to a layout of blowholes in ascending pipe of RH refining furnace, which comprises a vacuum chamber, an ascending pipe, a descending pipe, blowholes, channel for blowholes, an gas supply pipeline and an air source; The bottom of the vacuum chamber is connected with the ascending pipe and the descending pipe; The blowholes are connected with the air source through the gas supply pipeline. Six to eight blowholes are correspondingly arranged on the semicircular surface of the upper and lower horizontal planes at the lower part of the ascending pipe, and the blowholes are inclined upward in ascending pipe wall. By adopting the invention, the great improvement of lifting and efficiency of gas, the

increased circulating flow of the molten steel, the reduced degassing time can be achieved, thus improving the refining efficiency.

21: 2021/05252. 22: 2021/07/26. 43: 2021/08/04
51: A01G

71: Central South University of Forestry and Technology

72: Yang Liuqing

54: DIFFUSE-ROW PLANT CULTIVATION HANGING TRAY

00: -

The present invention discloses a diffuse-row plant cultivation hanging tray, including a tray body with an internal water storage cavity, a diffuse drainage valve set on the side wall of the tray body, and a fixed block inlaid with the tray body or the diffuse drainage valve. The diffuse drainage valve includes a drainage chamber and an inner tube body, the tray body side wall near the bottom is opened with a water crossing hole, the inner tube body sealed through the bottom of the drainage chamber, there is a gap between the top of the inner tube body and the inner top surface of the drainage chamber, the bottom of the inner tube body is a drainage hole. The diffuse-row plant cultivation hanging tray with this structure, on the one hand, uses the siphon principle to drain automatically after the cultivation substrate or soil is wetted. Dropping the water level to a position that ensures that the plants are not soaked for a long time, thus enabling automatic drainage for watering, with an overall simple and reliable structure that greatly saves watering and drainage costs. On the other hand, the tray body adopts the form of snap-on fixing, which is convenient to disassemble and helps to improve the convenience of plant cultivation.

21: 2021/05253. 22: 2021/07/26. 43: 2021/08/04
51: A01G

71: Central South University of Forestry and Technology

72: Yang Liuqing

54: ANTI-SUBSTRATE SPILL PLANTING CUP WITH FERTILIZER ROD

00: -

The present invention discloses an anti-substrate spill planting cup with a fertilizing rod, comprising a cup, a lid and a fertilizing rod, the lid being made of a

resilient material, the lid being provided with a planting hole and a plurality of slits in all directions from the planting hole. The fertilizing rod is vertically passed through the cup lid and is detachably connected to the lid. With this structure, the cup can prevent the substrate from spilling and can be replenished with nutrients at any time by the fertilizer rod, which solves the problem of lack of fertilizer in the late stage of plant growth.

21: 2021/05254. 22: 2021/07/26. 43: 2021/08/04
51: B01J

71: Zhejiang University of Technology

72: Zhao Jia, Wang Bolin, Yue Yuxue, Wang Saisai

54: PREPARATION METHOD AND APPLICATION OF COPPER CATALYST FOR ACETYLENE HYDROCHLORINATION REACTION

00: -

The invention discloses a preparation method and application of a copper catalyst for acetylene hydrochlorination reaction. The preparation method comprises the following steps: dissolving a copper-containing precursor and a base metal auxiliary agent in a solvent, stirring to uniformly mix them, dripping the mixed liquid onto a porous solid carrier at 20-30°C, soaking for 8-15 hours by an equal-volume soaking method under the action of a high-voltage pulsed electric field, and drying for 8-24 hours at 40-110°C to obtain the copper catalyst; And the base metal auxiliary agent is one or more metal salts of Bi, Ba, Fe, Mn, Zn, K, Ca, Sn and Ni. The invention provides the application of the copper catalyst in the reaction of synthesizing vinyl chloride by hydrochlorination of acetylene. According to the invention, the high voltage pulsed electric field technology is applied to the catalyst preparation process, which is beneficial to improve the activity of the catalyst and can maintain stability in a long reaction process.

21: 2021/05255. 22: 2021/07/26. 43: 2021/08/04
51: A23L; C12P

71: Zaozhuang University, Tianjin University of Science and Technology

72: Zhang Bosheng, Sun Zhongguan, Zhang Lihua

54: WATER-SOLUBLE MONASCUS RED PIGMENT AND PREPARATION METHOD THEREOF

00: -

A water-soluble monascus red pigment and preparation method thereof are as follows. Diluting monascus red pigment powder with purified water, adding 3-5 kg of water per 1 kg of monascus red pigment powder, stirring uniformly. Adding L-sodium glutamate or L-sodium aspartate or their mixture in any ratio, preferably 1:1, and adding 50-80 g of mixture of sodium glutamate and sodium aspartate per 1 kg of monascus red pigment powder, preferably 65 g. Ultrasonic stirring, keeping the temperature at 40-70°C, preferably 55°C. Reacting for 3-8 h, preferably 5 h. The method has simple process, does not use chemicals such as acid, alkali and organic solvent. The method also has low production cost, is suitable for industrial production, and has high product purity and wide application.

21: 2021/05256. 22: 2021/07/26. 43: 2021/08/04
51: G06T

71: Sichuan University of Science and Engineering
72: Luo Zhongqiang, Dai Jinpeng

54: INFRARED AND VISIBLE LIGHT IMAGE FUSION METHOD BASED ON FEATURE EMBEDDING

00: -

The invention discloses an infrared and visible light image fusion method based on feature embedding, which comprises the following steps: Extracting source image features of infrared and visible light images by constructing self-calibration convolution network model to obtain source image feature information; preprocessing the source image feature information by using ZCA whitening to obtain the source image feature activity graph; embedding the high-level feature activity graph in the source image feature activity graph into the low-level feature activity graph to obtain a weight graph; finally constructing a fusion image through the source image and the weight graph. Improve the effectiveness of infrared and visible light image fusion in target detection, target tracking, biometric identification and in the five commonly used image fusion quality evaluation such as pixel feature mutual information, sum of the correlations of differences, structural similarity index measure, edge preserving index and fusion performance based on noise evaluation.

21: 2021/05257. 22: 2021/07/26. 43: 2021/08/04
51: B09C; C02F

71: Hengyang Normal University

72: Tang Wenqing, Zeng Rongying, Tang Siping, Wang Shuzhan, Yi Nengzhong, Wang Zefen, Yi Lu

54: SOIL REMEDIATION PASSIVATION MICROCAPSULE

00: -

The invention relates to a soil remediation passivation microcapsule, which is characterized by comprising a core layer, an intermediate layer and a protective layer; The soil remediation passivation microcapsules are composed of a core layer, an intermediate layer and a protective layer from inside to outside, wherein the intermediate layer is arranged between the core layer and the protective layer, and the protective layer is provided with micropores. According to the invention, a microcapsule material with a multilayer structure design is adopted, so that the problems that a single powder adsorbent is difficult to collect and has poor chemical resistance and the like are avoided. At the same time, calcium carbonate is used to modify polyvinyl alcohol in the surface protective layer, and acidification is used to etch the surface, so that calcium carbonate sol in the protective layer forms holes, improves the microcapsule ion channel, and is beneficial to soil remediation ion conduction and solution transmission. The method has wide application prospect when applied to environmental soil remediation.

21: 2021/05258. 22: 2021/07/26. 43: 2021/08/04
51: A01G

71: Central South University of Forestry and Technology

72: Yang Liuqing

54: SIPHON-TYPE IRRIGATION AND DRAINAGE INTEGRATED CULTIVATION DEVICE

00: -

The invention discloses a siphon-type irrigation and drainage integrated cultivation device, which comprises a cultivation pipe and a siphon-type irrigation and drainage integrated structure. The inner space of the cultivation pipe forms a water storage cavity, and the side wall of the cultivation pipe is provided with a planting cup placement hole. The siphon-type irrigation and drainage integrated structure includes an outer cylinder and an inner pipe. Both ends of the outer cylinder are sealed, and

the side wall of the outer cylinder is provided with a water inlet; The upper section of the inner pipe and is sleeved with the outer cylinder; The lower section of the inner pipe penetrates the bottom of the cultivation pipe; There is a gap between the top end of the inner pipe and the inner top surface of the outer cylinder, and there is water outlet at the bottom end of the inner pipe. The cultivation device with this structure uses the siphon principle to automatically drain after the cultivation substrate or the soil is infiltrated, and the water level is lowered to a position that ensures that the plants are not soaked for a long time, thus realizing the fully automatic integration of the whole process from irrigation to drainage. The overall structure is simple and reliable, greatly saving irrigation and drainage costs.

21: 2021/05259. 22: 2021/07/26. 43: 2021/08/04
51: G06F; H03M

71: Anhui University of Science and Technology
72: Wang Zhonggen, Wang Pan, Nie Wenyan, Sun Yufa, Ouyang Mingsan, Wang Zhi

54: REDUCED MATRIX CONSTRUCTION METHOD FOR ACCELERATING ITERATIVE SOLUTION OF CHARACTERISTIC BASIS FUNCTIONS METHOD

00: -

The invention discloses a reduced matrix construction method for accelerating iterative solution of characteristic basis functions method, which can effectively accelerate iterative solution speed of characteristic basis function method. Firstly, the singular value decomposition technique is used to compress the excitation source, and a new compressed excitation source is obtained, which is defined as the voltage basis functions (VBFS). Secondly, based on the new excitation source, the characteristic basis functions (CBFS) of each subdomain is solved. At last, VBFs and CBFs are used as test functions and basis functions to construct the reduced matrix, and the main diagonal submatrices of the reduced matrix are all identity matrix, which optimizes the conditions number of the reduced matrix and speeds up the iterative solution of the reduced matrix equation. The method provides a new method for iterative solution of characteristic basis functions method, and can be combined with multilevel fast multiple algorithm, adaptive integration method, pre-correction-fast

Fourier transform method and other algorithms to further improve the efficiency of analyzing electromagnetic scattering characteristics of electrically large targets by characteristic basis function method.

21: 2021/05264. 22: 26/07/2021. 43: 2021/08/04
51: G01N

71: NANTONG UNIVERSITY

72: LIU, Zhan, PENG, Yuping, CHEN, Zhong, QIU, Yihua, HUANG, Yan

54: AUTOMATICALLY CONTROLLED, ADJUSTABLE-ANGLE APPARATUS FOR CALIBRATING SECTIONS OF ANIMAL BRAIN FOR EXPERIMENTATION

00: -

An automatically controlled, adjustable-angle apparatus for animal brain for experimentation, comprising a base (1), left and right side plates (2) being arranged on the left and right sides of the base (1). An angle adjustment bottom plate (3) is arranged on the base (1) and between the left and right side plates (2), the upper surface of the angle adjustment bottom plate (3) taking the form of an inclined surface at a compensatory angle required for a brain tissue sample section, one end of the angle adjustment bottom plate (3) being movably connected to the base (1) by means of a linking joint, and the other end of the angle adjustment plate (3) being a free end. A forward- and backward-moving wedge-shaped supporting block (4) is arranged below the free end, a plurality of pairs of blade motion guide slots (5) that guide blades to move vertically are arranged in the left and right side plates (2), and blades for cutting a brain tissue sample are installed in the blade motion guide slots (5). The wedge-shaped support block (4) is fixedly connected to a ball screw nut (6) on one side, the ball screw nut (6) is mated with a ball screw (7), one end of the ball screw (7) is connected to an electric driving mechanism (8), and an angle measurement apparatus (9) for measuring the angle of the adjustable-angle bottom plate (3) is installed on the left and right side plates (2). Angle adjustment is implemented by means of an automatic control mechanism, and adjustment is convenient and accurate.

21: 2021/05265. 22: 26/07/2021. 43: 2021/08/04

51: A61B

71: NANTONG UNIVERSITY

72: CAO, Beibei, QIU, Yihua, BEN, Zhiqin, PENG, Yuping, WANG, Xiaoqin

54: HAND-OPERATED ADJUSTABLE-ANGLE APPARATUS FOR CALIBRATING SECTIONS OF ANIMAL BRAIN FOR EXPERIMENTATION

00: -

A hand-operated adjustable-angle apparatus for calibrating sections of animal brain for experimentation. Left and right side plates (2) are arranged on the left and right sides of a base (1). An angle adjustment bottom plate (3) is arranged on the base (1) and between the left and right side plates (2), the upper surface of the angle adjustment bottom plate (3) taking the form of an inclined surface at a compensatory angle required for a brain tissue sample section, one end of the angle adjustment bottom plate (3) being movably connected to the base (1) by means of a linking joint, and the other end of the angle adjustment plate (3) being a free end. A forward- and backward-moving wedge-shaped supporting block (4) is arranged below the free end, a plurality of pairs of blade motion guide slots (5) that guide blades to move vertically are arranged in the left and right side plates (2), and blades for cutting a brain tissue sample are installed in the blade motion guide slots (5). The wedge-shaped supporting block (4) is fixedly connected to a ball screw nut (6), the ball screw nut (6) being mated with a ball screw (7), and one end of the ball screw (7) being provided with a hand crank (8). Rotation of the ball screw (7) is controlled by means of the hand crank (8), thereby driving motion of the wedge-shaped supporting block (4) to achieve angle adjustment. Adjustment is convenient and accurate.

21: 2021/05294. 22: 2021/07/27. 43: 2021/08/11

51: B01J

71: Zhengzhou University of Aeronautics

72: Ke Xu, Binguo Zheng, Jiehu Cui, Chunguang Li, Junling Niu, Qingzhao Li, Yu Sun, Xiaofeng Jia, He Tao, Xiaohui Zhao, Haiping Liu, Jianyun Li, Lei Liu, Lizhen Liang, Xiangping Wang, Lingyan Jiang, Xu Luo

54: AN APPLICATION METHOD OF BASIC MAGNESIUM CHLORIDE AND PHOSPHORUS ADSORBENT

00: -

The invention relates to an application method of a basic magnesium chloride and phosphorus adsorbent, which comprises the following step: 1) Determine the optimal pH value; 2) Determine the optimal amount of adsorbent; 3) Determine the optimal oscillation time; 4) Determine the optimal initial concentration; the invention has the advantages that it can determine the best adsorbent dosage, the best pH value, the best oscillation time and the best initial concentration, and has good popularization value.

21: 2021/05294. 22: 2021/07/27. 43: 2021/08/11

51: B01J

71: Zhengzhou University of Aeronautics

72: Ke Xu, Binguo Zheng, Jiehu Cui, Chunguang Li, Junling Niu, Qingzhao Li, Yu Sun, Xiaofeng Jia, He Tao, Xiaohui Zhao, Haiping Liu, Jianyun Li, Lei Liu, Lizhen Liang, Xiangping Wang, Lingyan Jiang, Xu Luo

54: AN APPLICATION METHOD OF BASIC MAGNESIUM CHLORIDE AND PHOSPHORUS ADSORBENT

00: -

The invention relates to an application method of a basic magnesium chloride and phosphorus adsorbent, which comprises the following step: 1) Determine the optimal pH value; 2) Determine the optimal amount of adsorbent; 3) Determine the optimal oscillation time; 4) Determine the optimal initial concentration; the invention has the advantages that it can determine the best adsorbent dosage, the best pH value, the best oscillation time and the best initial concentration, and has good popularization value.

21: 2021/05295. 22: 2021/07/27. 43: 2021/08/11

51: F16D; G01M

71: Zhengzhou University of Aeronautics

72: Li Lianxiu, Guo Yibin, Wang Xiang, Wu Shengwei, Gu Zhanfei

33: CN 31: 202110310264.7 32: 2021-03-23

54: RAPID LEAKAGE DETECTION DEVICE FOR MUNICIPAL WATER SUPPLY PIPELINE

00: -

The present disclosure relates to the technical field of pipeline leakage detection devices, and discloses

a rapid leakage detection device for municipal water supply pipeline, which comprises a knocking part, an audio receiving module, a storage module, a comparison module, a warning indicator, a central processor and a power supply module, wherein the knocking part can be installed on the pipeline and strikes the pipeline to make knocking sound, the audio receiving module is used to receive the knocking sound information in real time and equipped with a wireless communication module, the storage module stores a plurality of abnormal knocking sound information at the leakage position of the pipeline, the comparison module is used to compare knocking sound information with various abnormal knocking sound information stored in the memory module one by one, the warning indicator is used to send out an alarm to indicate abnormality on the current pipeline, and the central processor is respectively in signal connection to the wireless communication module, the storage module and the comparison module. The device can quickly detect the water supply pipeline for leakage.

21: 2021/05317. 22: 27/07/2021. 43: 2021/08/11
51: H01M

71: GUANDONG OCEAN UNIVERSITY

72: ZHAO, Juan, YANG, Naide

33: CN 31: 201911011296.6 32: 2019-10-23

54: COMPOSITE MATERIAL, ITS PREPARATION METHOD, AND ITS USE AS ELECTRODE MATERIAL

00: -

The present invention discloses a composite material, as well as a preparation method and use thereof. The preparation method of the composite material comprises the following steps: mixing MXene with a transition-metal salt solution, and then sequentially filtering and drying to obtain MXene loaded with the transition-metal salt; subjecting the MXene loaded with the transition-metal salt and a carbon source to high-temperature chemical vapor deposition (CVD) to obtain a first product; treating the first product with an acid; subjecting the first product treated with the acid and a silicon source to the high-temperature CVD to obtain a second product; and subjecting the second product and the carbon source to the high-temperature CVD to obtain the composite material. The preparation method of the present invention can effectively

combine MXene, the carbon source and the silicon source, thereby greatly improving the capacity, rate performance and cycle stability of lithium-ion batteries.

21: 2021/05318. 22: 27/07/2021. 43: 2021/08/11
51: B01J; C02F

71: SOUTH CHINA NORMAL UNIVERSITY

72: ZHENG, Liuchun, YANG, Yuebei, ZHAN, Yiru,

YANG, Yufang, ZENG, Hao, CHEN, Shukai

33: CN 31: 201811363536.4 32: 2018-11-16

54: PHOSPHORYLATION ULTRA-FAST STRAW FIBER ADSORPTION MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a type of environment-friendly, high-efficiency and low-cost phosphorylation ultra-fast straw fiber adsorption material, preparation method and application thereof, and relates to the preparation and application field of adsorption materials. The phosphorylation ultra-fast straw fiber adsorption material is made from straw after modification of phosphorous acid, paraformaldehyde and hydrochloric acid. The specific area of the adsorption material is 2.6-2.7m²/g, and the pore volume is 0.005-0.006cm³/g.

21: 2021/05461. 22: 2021/08/02. 43: 2021/08/04
51: G01N

71: Henan Agricultural University

72: Heng Wang

33: CN 31: CN202110634530.1 32: 2021-06-08

54: AGRICULTURAL INTERNET OF THINGS (IOT) INFORMATION COLLECTION DEVICE AND EARLY WARNING METHOD THEREOF

00: -

A device and an early warning method are described for agricultural Internet of Things (IOT) information collection. The device includes a first collection rod and a second collection rod. The number of the first collection rod is multiple, and the first collection rods are respectively inserted at each corner of the farmland; and the number of the second collection rod is one and the second collection rod is inserted at the center of the farmland. The first collection rods are provided with a ranging collection module, a flowmeter, an electronic liquid level rod, a buoy, and an ion monitor. The second collection rod is provided with a wind monitor, a light monitor, an air monitor, a data processing module, and a soil monitor.

21: 2021/05462. 22: 2021/08/02. 43: 2021/08/04
51: A01C

71: Henan Agricultural University

72: Tianbao Ren, Ke Zhang, Zequan Huang, Pan Ding, Bo Wang, Feiyang Chui, Guoshun Liu

33: CN 31: CN202110638135.0 32: 2021-06-08

54: TRANSPLANTING AND DIGGING DEVICE FOR TOBACCO SEEDLINGS UNDER FILM

00: -

A transplanting and digging device for tobacco seedlings under film includes a mounting frame and walking ground wheels symmetrically arranged on both sides of the mounting frame; the mounting frame is provided with a bearing seat for connecting with the main shaft of the walking ground wheels, and the two ends of the main shaft are respectively rotationally connected with the traction frame; the mounting frame is provided with a seedlings digging component, a control assembly for controlling the operation of the seedlings digging assembly and a driving component for providing power for the movement of the seedlings digging component. By regulating and controlling the transmission ratio of the multi-stage transmission, the transplanting and digging device for tobacco seedlings under film can conveniently regulate the plant spacing to meet the operation requirements of different varieties and different plant spacings; the device can continuously carry out tobacco seedlings digging operation at high speed, so the operation efficiency is very high; the double stroke cylinder is used to control the saw tooth punch, which is fast in action, small in error and can be operated continuously.

21: 2021/05463. 22: 2021/08/02. 43: 2021/08/04
51: A01C

71: Henan Agricultural University

72: Pan Ding, Ke Zhang, Zequan Huang, Tianbao Ren, Xiaojuan Liu, Yatao Xiao, Yong Chen, Long Shao, Xiaochan Liu, Pengfei Li

33: CN 31: CN202110637371.0 32: 2021-06-08

54: TRANSPLANTING AND SOIL COVERING DEVICE FOR TOBACCO SEEDLINGS UNDER FILM

00: -

A transplanting and soil covering device for tobacco seedlings under film includes: a mounting frame and a soil covering device arranged on the mounting frame; the transplanting and soil covering device for tobacco seedlings under film also comprising a

control component, which consisting of a double stroke air cylinder connected with the soil covering device, a solenoid valve in cooperate with the double stroke air cylinder, and an regulating control element for controlling the switch of the solenoid valve; the regulating control element controlling the solenoid valve switch to make the double stroke air cylinder drive the soil covering device to cover the soil when the soil covering device being close to the tobacco seedling. The transplanting and soil covering device for tobacco seedlings under film utilizes a double stroke air cylinder to control the soil covering gate for soil covering operation, which can be operated continuously at high speed and has high operation efficiency. The operation of the soil covering device is rapid, the high-speed continuous operation is possible, and the operation efficiency is high. And the error of the soil covering operation for the transplanting and soil covering device for tobacco seedlings under film is small, which can obviously reduce the labor cost and improve the soil covering efficiency. In addition, it can also avoid contacting tobacco seedlings by manual operation, reduce the probability of infecting with virus for tobacco seedlings, and improve the survival rate of tobacco seedlings.

21: 2021/05464. 22: 2021/08/02. 43: 2021/08/04
51: A61B

71: Qingdao Agricultural University

72: Zhongling Jiang, Yanni Feng, Wenru Tian

54: A MULTIFUNCTIONAL EMBRYO TRANSFER DEVICE

00: -

The invention discloses a multifunctional embryo transfer device which comprises a needle nipple, a piston slide and a grip. The end of the grip is provided with a holding cavity and burner cavity, the end of the transplant needle is inserted with a rubber plug with a holding cavity; the piston slide is provided with a piston, and the back end of the piston is connected with a driving mechanism; the needle nipple comprises a front tube and a back tube, and the end of the back tube is provided with a flow regulating valve; a cleaning injection port is arranged on one side of the front tube. The invention can easily suck and blow embryos, prevent the needle from being blocked, and easily bend the needle.

21: 2021/05465. 22: 2021/08/02. 43: 2021/08/04
51: A01G

71: China Building Materials Industrial Construction
Xi'an Engineer Co., Ltd.

72: Wang Chao, Zhang Yawen, Ma Chunfeng, Han
Bo, Yang Daizhong, Zhang Chunping, Yu Fanghai,
Zeng Wenqiu

**54: A METHOD FOR PREPARING MUD FOR MINE
VEGETATION RESTORATION PROJECT**

00: -

The invention relates to a method for preparing mud for mine vegetation restoration project, which belongs to the technical field of mine vegetation restoration, and includes the following steps: S1, collecting original soil and slurring it; S2, crushing the original soil after slurring process is completed; S3, washing and filtering the crushed original soil to remove unbreakable impurities; S4, adding organic matter. The present invention can accelerate the decomposition of animal and plant trunks and other organic matter in the original soil through slurring, which not only improves the organic matter content of original soil, but also increase soil moisture content, avoid soil compaction and adhesion, and ensure soil mixing. In addition, iron, manganese and clay particles in the soil are lost or moved downwards with water and precipitated under the action of the humus layer. The heavy metal content in the mud is reduced. The method has high preparation quality, simple operation, low cost, strong practicability, and is worthy of promotion.

21: 2021/05466. 22: 2021/08/02. 43: 2021/08/04
51: E02D

71: China Building Materials Industrial Construction
Xi'an Engineer Co., Ltd.

72: Wang Chao, Yang Daizhong, Zhang Chunping,
Han Bo, Zhang Yawen, Ma Chunfeng, Yu Fanghai,
Zeng Wenqiu

**54: A DEVICE FOR PREPARING MUD FOR MINE
VEGETATION RESTORATION PROJECT**

00: -

The invention relates to a device for preparing mud for mine vegetation restoration project, which belongs to the technical field of mine vegetation restoration. The device includes: an earth crusher; a receiving pool is arranged on one side of the earth crusher and connected to the output of the earth crusher; a dilution assembly arranged on the receiving pool for realizing the dilution when the

original soil is crushed; the dilution assembly includes: a bracket, which is arranged on the side of the receiving pool close to the earth crusher; a water tank, which is arranged on the top of the bracket. The water tank and the inlet of the earth crusher is connected through the first pipe; circulating flushing mechanism, which is arranged on the side of the bracket and is used to circulate and dilute the broken original soil; the present invention can process the hardened and adhered soil into mud through the earth crusher and the dilution assembly to obtain high-quality spraying substrate and make it perform mixing and spraying operations; the device has simple operation, high preparation efficiency, strong practicability, and worthy of promotion.

21: 2021/05467. 22: 2021/08/02. 43: 2021/08/04
51: G06F

71: Tianjin Research Institute for water transport
engineering, Ministry of transport

72: Wang Jianjun, Guo Yang, Wang Chenyang,
Yang Yunping, Liu Xiaofei, Zhang Hongqian

**54: COUPLED SIMULATION METHOD OF 2D AND
3D MATHEMATICAL MODELS BASED ON
INTERNAL AND EXTERNAL SCHEMAS**

00: -

Disclosed by the present invention is a coupled simulation method of 2D and 3D mathematical models based on internal and external schemas, comprising the following steps: building a 2D mathematical sedimentation model and a 3D mathematical sedimentation model, acquiring initial and boundary conditions, calculating the external schema by the 2D mathematical sedimentation model based on the initial and boundary conditions, calculating the internal schema by the 3D mathematical sedimentation model based on the external schema calculation results, updating the 2D mathematical sedimentation model locally based on the internal schema calculation results, and obtaining the simulation and prediction results of the whole river reach characteristics through the coupled calculation of the internal and external schemas of the 2D and 3D mathematical sedimentation models. According to the method of the present invention, the evolution laws of beaches and channels in terms of long river reach characteristics under complex boundary conditions are simulated and predicted with high precision, indicating strong practicability.

21: 2021/05468. 22: 2021/08/02. 43: 2021/08/04
51: C10B

71: Jiangxi Agricultural University

72: Zhang Ling, Wang Baihui, Bai Jian, Zou Yu, Guo Wenyan

54: PRODUCTION METHOD OF WOODY OIL INDUSTRY BY-PRODUCT-BASED BIOCHAR AND ITS APPLICATION IN SOIL AMELIORATION

00: -

This invention discloses a woody oil industry by-product-based biochar and its application in soil amelioration, especially for soil water retaining and acidification improvement. A popular and wide distributed woody oil plant, *Camellia oleifera*, was used as model plant in this invention. In *C. oleifera* industry, large amount of by-product was produced without proper use, including dregs and fruit shells, which were mainly dumped and could be used to produce biochar. The biochar is produced after mixing by-product dregs and fruit shell (1:1 ratio) of *C. oleifera* thoroughly as the raw material of biochar, and polyacrylamide, sodium polyacrylate, cross-linked carboxymethyl cellulose or cross-linked polyvidone as the water absorbent, whose specific surface area is greater than 2300 m²/g. The preparation method is: place the dried *C. oleifera* by-product into an air-tight container and then put the container in the preheated muffle furnace for staged carbonization. The biochar obtained in this way has a larger specific surface area and strong absorption abilities, which can be used as water-retaining and acidification agents directly. The biochar obtained through carbonization with the water absorbent is modified step by step to produce the agents; then hydroxypropyl cellulose is added to further improve the water holding ability of water-retaining agents. Easily available and economical, the raw materials are suitable to be promoted in agriculture and forestry.

21: 2021/05469. 22: 2021/08/02. 43: 2021/08/04
51: A23K

71: Qingdao Agricultural University

72: Wen Jianxin, Ren Jianwei

54: PREPARATION METHOD OF COMPOUND MICROECOLOGICAL PREPARATION FOR FUR ANIMALS

00: -

The invention discloses a preparation method of compound microecological preparation for fur animals, and belongs to the technical field of fur animal microecological preparations. In the preparation method, yeast, lactic acid bacteria, white rot fungus, *Bacillus subtilis*, *Bifidobacterium*, mold and cellulase obtained by culture are respectively subjected to first-class liquid amplification culture. Secondly, yeast, lactic acid bacteria, white rot fungus, *Bacillus subtilis*, *Bifidobacterium*, mold and cellulase after first-class liquid amplification culture are respectively subjected to second-class liquid amplification culture. Finally, mixing yeast liquid, lactic acid bacteria liquid, white rot fungus liquid, *Bacillus subtilis* liquid, *Bifidobacterium* liquid, mold liquid and cellulase liquid obtained after the second-class liquid amplification culture according to a certain weight ratio to obtain the compound microecological preparation. The compound microecological preparation obtained by the preparation method of the invention can improve the immunity of fur animals while treating bacterial and viral diseases.

21: 2021/05470. 22: 2021/08/02. 43: 2021/08/04
51: A01K

71: Yantai Institute of China Agricultural University

72: Liu Feng, Han Huanfu, Liu Chun'e, Wang Shuqi, Xu Fanshu, Lin Wenwen

54: INDOOR HIGH-DENSITY CIRCULATING WATER OVERWINTERING DEVICE AND METHOD FOR URECHIS UNICINCTUS LARVAE

00: -

The invention discloses an indoor high-density circulating water overwintering device and method for *Urechis unicinctus* larvae. The overwintering device includes: a number of culture ponds, water collection tank, microfilters, balance pond, biochemical treatment system, oxygenation system, water supplement system, temperature control system; culture ponds, water collection tank, microfilter, balance pond, and biochemical treatment system are connected in sequence. The biochemical treatment system is connected to the culture ponds; the oxygenation system is connected to the culture ponds and the biochemical treatment system respectively. The supplement pond and the temperature control system are connected with the balance pond; each culture pond is provided with a

suspension bracket for substrata, and there are several layers of substrata on the suspension bracket. The invention changes the existing flat culture mode of *Urechis unicinctus* and increases the culture density per unit of water; At the same time, it facilitates the discharge of residual bait, feces, etc., which improves the living environment of *Urechis unicinctus*; in addition, the water exchange volume of circulating aquaculture is small and the environmental temperature control method is adopted, which reduces the cost of temperature control while reducing pollution emissions.

21: 2021/05472. 22: 2021/08/02. 43: 2021/08/04
51: B25J

71: Nanchang University

72: Yitian Lu

54: AN AUXILIARY FOR REALIZING ROBOT WRITING

00: -

The invention discloses an auxiliary mechanism for realizing robot writing, which comprises a connecting piece for connecting with the end shaft of the robot; a buffer part is used to adjust the pressure on the paper in the process of writing by the robot, and the buffer part is connected with the connecting piece through a guide seat; a clamping part is used for clamping the writing pen, and the clamping part is connected with the lower end of the buffer part; and a limit part for controlling the stroke of the buffer part. The invention has strong practicability and function, and can be widely used in the technical field of robots or writing tools.

21: 2021/05476. 22: 2019/07/31. 43: 2021/08/04
51: B01D; C02F

71: DYCLAR GMBH

72: BALAEV, Igor Semenovich

33: RU 31: 2019113558 32: 2019-04-29

54: METHOD OF PURIFYING NATURAL WATER AND WASTEWATER

00: -

The invention is classified as a physicochemical method of natural and waste water treatment and can be used in the energy engineering, chemical, petrochemical, food and other industries, especially in treatment of process, domestic, precipitation, mining, oilfield, quarry water and the water of tailing pounds. The purpose of the invention is to improve

the treatment of natural and waste water, to increase the capacity of a moving bed pressure filter and also to ensure high efficiency of the cleaning of the moving bed. The technical result is the expansion of the range of application of the moving bed pressure filter ensuring high efficiency of treatment of both low-contaminated natural water and highly contaminated waste water. This result is obtained due to the use of additional stages of chemical treatment during water treatment (oxidizing agent, demulsifier, powder sorbent), the use of various types of a pressure flocculation reactor, grains for a single and double moving bed, which have different grain composition and density, the performance of four-stage cleaning of the moving bed, the use of a dual-flow moving bed pressure filter, as well as due to the use of the additional pressure flocculation reactor followed by the removal of severe contamination with the use of a pressurized hydrocyclone.

21: 2021/05498. 22: 2021/08/03. 43: 2021/08/11
51: H02J

71: Inner Mongolia University of Technology

72: Li Hua, Li Le

54: SEAMLESS SWITCHING SYSTEM APPLICABLE FOR LOW VOLTAGE RIDE-THROUGH OF VIRTUAL SYNCHRONOUS GENERATOR

00: -

The invention discloses seamless switching system applicable for low voltage ride-through of virtual synchronous generator, which comprises phase integrator U1, amplitude integrator U2, VSG controller, three-phase modulation wave generator, single-pole double-throw switch S, LVRT control module and dq-abc coordinate converter. This invention aims at the problem that the distributed power inverter adopts VSG control without have low voltage ride-through capability, a mode seamless switching control strategy based on voltage amplitude and phase pre-synchronization is proposed by combining the traditional LVRT control method, and the introduced pre-synchronization unit corrects VSG output in real time, thereby effectively avoiding the problem of phase inconsistency before and after LVRT/VSG mode switching. Simulation results show that the control strategy can restrain transient surge current and improve grid-connected

power quality during low voltage fault of power grid, and ensure LVRT based on VSG of distributed power inverter without disconnection, which verifies the correctness and effectiveness of the proposed method.

21: 2021/05499. 22: 2021/08/03. 43: 2021/08/11
51: G02B

71: Shenzhen Guohua Optoelectronics Tech. Co. Ltd., Academy of Shenzhen Guohua Optoelectronics, Ltd.

72: Guo Yuanyuan, Zhou Guofu

54: ELECTROWETTING DISPLAY AND MANUFACTURING METHOD THEREOF

00: -

The invention discloses an electrowetting display and a manufacturing method thereof. The height of a prepared pixel grid is controlled to be greater than or equal to the length of the pixel grid. According to the principle that the capillary force of pixel grid with larger height and length is greater than the adhesive force between oil and the surface of pixel grid, control the thickness of oil in the pixel grid so that the thickness of oil is ensured to be lower than that of the pixel grid and the phenomenon that oil overflows the pixel wall during the switching process is avoided. The manufacturing method of the invention has a simple process, high filling speed and good filling uniformity. It is suitable for filling large-area displays and flexible display devices.

21: 2021/05500. 22: 2021/08/03. 43: 2021/08/11
51: A61L

71: West AnHui University

72: Liu Xiangyuan, Du Chengtao, Fang Jie, He Rui, Wei Xiangfei

54: CLEANING AND DECONTAMINATION DEVICE FOR RAW MATERIALS USED IN THE PRODUCTION OF OPTOELECTRONIC DEVICES

00: -

The invention relates to the field of optoelectronics, in particular to a cleaning and decontamination device for raw materials used in the production of optoelectronic devices, which includes a mounting frame. The upper beam of the mounting frame includes a left beam and a right beam. A water tank is arranged between the left beam and the right beam. A plurality of baffles is fixedly connected between the left and right inner walls of the water tank, and a plurality of guide sleeves is sheathed on

the baffles. The guide sleeves are made of elastoplastic. Two groups of brushes are arranged between the front and rear baffles and the back end of the two adjacent brushes is connected with a connecting rod whose radius is less than the opening radius of the guide sleeve. The other end of the connecting rod is connected with a supporting rod. The supporting rod is connected with the transverse clamping plate, and the supporting rod is fixedly connected with the transverse clamping plate. The cleaning and decontamination device in the invention is of scientific structure and can clean the raw materials thoroughly used in the production of electronic equipment, and avoids the adverse effect of impurities on the subsequent production.

21: 2021/05501. 22: 2021/08/03. 43: 2021/08/11
51: H04W

71: Guangdong University of Petrochemical Technology, Xi'an University of Technology

72: Hu Shaolin, Chen Ru, Zhang Qinghua, Wang Shihua, Wen Chenglin, Lei Gaowei

54: ZIGBEE-BASED REMOTE ONLINE MONITORING SYSTEM FOR POWER GRID TRANSFORMERS

00: -

The invention provides a ZigBee-based remote online monitoring system for power grid transformers, which comprises a data acquisition part, a wireless data transmission part and an upper computer monitoring part. The data acquisition part is used for collecting data of each state information of the corresponding transformer; The wireless data transmission part is transmitted to the master node through the routing node in the wireless network, then converged by the master node and finally sent to the monitoring part of the upper computer through the serial port; The monitoring part of the upper computer receives each group of state data uploaded by the master node through the serial port and displays it on the monitoring interface of the upper computer. The system can monitor the parameters of transformer winding temperature, partial discharge, high voltage casing current and dissolved gas in oil in real time. According to the real-time monitored data, it can also predict the possible faults of equipment in time, prevent them before they happen, and reduce the losses caused by equipment faults.

21: 2021/05502. 22: 2021/08/03. 43: 2021/08/11
51: C02F

71: Pearl River Fisheries Research Institute,
Chinese Academy of Fishery Sciences

72: Zhang Kai, Xie Jun, Wang Guangjun, Li Zhifei,
Gong Wangbao, Yu Ermeng, Tian Jingjing, Xia Yun

54: A BIOFILM AQUACULTURE WASTEWATER TREATMENT SYSTEM

00: -

The invention discloses a biofilm aquaculture waste water treatment system, which includes a primary filter tank, an MBR tank, a vertical flow sedimentation tower, a constructed wetland and an aeration tank. The outlet end of the primary filter tank is connected with the inlet end of the MBR tank. The outlet end of the MBR tank is connected with the inlet end of the vertical flow sedimentation tower. The outlet end of the vertical flow sedimentation tower is connected with the inlet end of the aeration tank. There is a corn cob filling filter in the center of the vertical flow sedimentation tower. The top of the vertical flow sedimentation tower is equipped with a flocculant injection port. The outlet end of the aeration tank is connected to the inlet end of the constructed wetland. The outlet end of the constructed wetland is provided with a discharge port. The system can effectively remove suspended matter and pollutants in the aquaculture waste water, reduce organic matter, ammonia nitrogen, total nitrogen and total phosphorus in the aquaculture waste water, and realize the purification and discharge of the aquaculture waste water. It has the advantages of being economical and efficient, stable effect, energy-saving and electricity-saving, easy to operate and promote etc.

21: 2021/05503. 22: 2021/08/03. 43: 2021/08/11
51: A01H

71: Guangdong University of Petrochemical
Technology

72: Ouyang Lejun, Wang Zechen, Li Limei, Chen
Kaizhao, Liu Zhichao, Pan Jingyin, Liang Chuyan,
Wu Yupeng

54: EUCALYPTUS GENETIC TRANSFORMATION METHOD WITH SELECTION MARKERS

00: -

The present invention discloses a genetic transformation method of Eucalyptus with selection markers, which uses Eucalyptus urophylla sterile seedling stems as explants to induce callus. The

regenerated plant with visual fluorescent marker gene mCherry is obtained by Agrobacterium transformation with fluorescent marker gene mCherry, adventitious bud induction, bud proliferation, adventitious bud elongation, rooting and transplanting. The invention is characterized in that the hypocotyls of Eucalyptus urophylla clones were used as explants to carry out callus. In the process of culture, Agrobacterium with visual fluorescent marker gene mCherry was used to transform them. After adventitious bud induction, adventitious bud elongation, bud proliferation, rooting culture, and transplantation, regenerated plants of the visualized fluorescent marker gene mCherry can be obtained. The regeneration plant of visual fluorescent marker gene mCherry can be obtained by adopting the method of the invention, the result is stable, and the conversion rate is good, so that the method can be used for observing whether the target gene is successfully introduced, and the foundation is laid for Eucalyptus gene breeding.

21: 2021/05504. 22: 2021/08/03. 43: 2021/08/11
51: F24F

71: Jiaxing University

72: Zhang Ye, Liu Fanhan, Li Kuishan, Zhou
Xiangjiang, Chen Yiguang, Qi Yuli

54: HEAT RECOVERY FRESH AIR DEHUMIDIFIER

00: -

The invention discloses a heat recovery fresh air dehumidifier, which comprises a fan shell, wherein opposite ends of the fan shell are respectively communicated indoors and outdoors; the outdoor side of the fan shell is respectively communicated with a fresh air port and an exhaust port; the indoor side of the fan shell is respectively communicated with an air supply outlet and an air return outlet; the fresh air outlet is communicated with the air supply outlet; the air return port is communicated with the air exhaust port; a first heat exchanger is communicated with the fresh air port and the air outlet, and a second heat exchanger is communicated with the air outlet and the air return port; a first communication pipe and a second communication pipe are communicated between the first heat exchanger and the second heat exchanger; a wind treatment component is arranged on the

second communication pipe. The invention has simple structure. It is convenient to use, it can not only continuously provide indoor fresh air, but also enjoy natural fresh air without opening windows, and meet the health needs of human body, reduce energy loss, reduce indoor energy loss, as well as reduce the power load of air conditioner, and effectively save electricity.

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

3. DESIGNS

DESIGNS**APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993**

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 2021/07/26 -

F2021/00865 - ALU-CAB HOLDINGS (PTY) LTD Class 12. STORAGE COMPARTMENT

A2021/00868 - KONINKLIJKE PHILIPS N.V. Class 07. KETTLE

A2021/00875 - MONTRES TUDOR SA Class 10. MOVEMENT FOR CLOCKS AND WATCHES

A2021/00873 - KONINKLIJKE PHILIPS N.V. Class 07. TOASTER

A2021/00932 - STEPHAN KONRAD GINTNER, JUAN TRYTSMAN Class 25. A FENCE

F2021/00866 - ALU-CAB HOLDINGS (PTY) LTD Class 12. VEHICLE CANOPY WITH TENT

A2021/00870 - KONINKLIJKE PHILIPS N.V. Class 07. POT

A2021/00877 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

F2021/00864 - BERMAD CS Ltd. Class 23. AN AIR VALVE

A2021/00869 - KONINKLIJKE PHILIPS N.V. Class 07. COFFEE MAKER

A2021/00876 - DART INDUSTRIES INC. Class 7. STORAGE CONTAINER

A2021/00872 - KONINKLIJKE PHILIPS N.V. Class 07. POT

A2021/00874 - KONINKLIJKE PHILIPS N.V. Class 07. TOASTER

A2021/00867 - KONINKLIJKE PHILIPS N.V. Class 07. KETTLE

F2021/00863 - ALU-CAB HOLDINGS (PTY) LTD Class 12. VEHICLE ROOF WITH TENT

A2021/00871 - KONINKLIJKE PHILIPS N.V. Class 07. COFFEE MAKER

F2021/00931 - STEPHAN KONRAD GINTNER, JUAN TRYTSMAN Class 25. A FENCE

- APPLIED ON 2021/07/27 -

A2021/00878 - Good Try (Pty) Ltd Class 6. LOCKER

A2021/00884 - Good Try (Pty) Ltd Class 6. LOCKER

A2021/00880 - Good Try (Pty) Ltd Class 20. LOCKER

A2021/00879 - Good Try (Pty) Ltd Class 25. LOCKER

A2021/00905 - FOCER HOLDINGS (PTY) LTD Class 02. FOOTWEAR

A2021/00892 - KONINKLIJKE PHILIPS N.V. Class 14. USER INTERFACE

F2021/00888 - Good Try (Pty) Ltd Class 20. LOCKER

F2021/00882 - Good Try (Pty) Ltd Class 20. LOCKER

F2021/00881 - Good Try (Pty) Ltd Class 6. LOCKER

A2021/00885 - Good Try (Pty) Ltd Class 20. LOCKER

A2021/00904 - FOCER HOLDINGS (PTY) LTD Class 02. FOOTWEAR

A2021/00886 - Good Try (Pty) Ltd Class 25. LOCKER

F2021/00887 - Good Try (Pty) Ltd Class 6. LOCKER

A2021/00903 - FOCER HOLDINGS (PTY) LTD Class 02. FOOTWEAR

F2021/00891 - Concept Plastic Mouldings Class 09. 2 KG MAAS BOTTLE

A2021/00890 - SEDQ HEALTHY CROPS, S.L. Class 22. INSECT TRAP

F2021/00889 - Good Try (Pty) Ltd Class 25. LOCKER

F2021/00883 - Good Try (Pty) Ltd Class 25. LOCKER

. - APPLIED ON 2021/07/28 -

F2021/00895 - ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD Class 12. BICYCLE RACKS

A2021/00896 - MODEL PRODUCT DISTRIBUTORS (PROPRIETARY) LIMITED Class 9. CONTAINER

A2021/00894 - ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD Class 12. BICYCLE RACKS

F2021/00900 - SINGH, Ajit Class 23. TANKS FOR LIQUID SUBSTANCES

A2021/00899 - SINGH, Ajit Class 23. FLUID DISTRIBUTION EQUIPMENT

F2021/00893 - Neill Human Class 08. CAN CRUSHER

F2021/00901 - SINGH, Ajit Class 23. FLUID DISTRIBUTION EQUIPMENT

A2021/00897 - DART INDUSTRIES INC. Class 9. BOTTLE WITH LEOPARD SHAPE

A2021/00898 - SINGH, Ajit Class 23. TANKS FOR LIQUID SUBSTANCES

. - APPLIED ON 2021/07/29 -

F2021/00906 - Dirk Rosslee Class 23. FIRE STARTER

A2021/00907 - DART INDUSTRIES INC. Class 9. BEVERAGE CONTAINER

A2021/00908 - AFRICA SUPPLY CHAIN EXCELLENCE AWARDS NPC Class 32. LOGO

A2021/00909 - AFRICA SUPPLY CHAIN EXCELLENCE AWARDS NPC Class 32. LOGO

- APPLIED ON 2021/07/30 -

A2021/00922 - MARIO MICHELE ROSSI Class 8. NUT REMOVAL TOOL

A2021/00912 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

A2021/00910 - GRAND PLASTICS (PTY) LTD Class 09. A CONTAINER

A2021/00927 - WHEEL PROS, LLC Class 12. WHEEL

A2021/00926 - WHEEL PROS, LLC Class 12. WHEEL

A2021/00924 - OPTEX CO., LTD. Class 10. HUMAN BODY DETECTOR

A2021/00923 - OPTEX CO., LTD. Class 10. HUMAN BODY DETECTOR

A2021/00921 - Jura Elektroapparate AG Class 7. COFFEE MAKERS

F2021/00919 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

A2021/00920 - Jura Elektroapparate AG Class 7. COFFEE MAKERS

F2021/00918 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

F2021/00916 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

A2021/00914 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

A2021/00913 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

A2021/00928 - WHEEL PROS, LLC Class 12. WHEEL

A2021/00915 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

A2021/00929 - WHEEL PROS, LLC Class 12. WHEEL

A2021/00925 - OPTEX CO., LTD. Class 8. BRACKET

F2021/00911 - GRAND PLASTICS (PTY) LTD Class 09. A CONTAINER

F2021/00917 - Minimax Viking Research & Development GmbH Class 23. FIRE PROTECTION SPRINKLERS

- APPLIED ON 2021/08/02 -

F2021/00930 - TURNKEY COMMERCE (PTY) LTD Class 07. HEATING DEVICE

- APPLIED ON 2021/08/03 -

A2021/00933 - Hyundai Motor Company, Kia Corporation Class 12. AUTOMOBILES

A2021/00935 - LINDE GMBH Class 14. ANIMATED CHARACTERS

A2021/00936 - KONINKLIJKE PHILIPS N.V. Class 31. BLENDER

A2021/00934 - LINDE GMBH Class 14. ANIMATED CHARACTERS

A2021/00937 - KONINKLIJKE PHILIPS N.V. Class 31. BLENDER

- APPLIED ON 2021/08/06 -

A2021/00943 - FERRARI S.P.A. Class 21. TOY CAR

A2021/00939 - FERRARI S.P.A. Class 12. CAR

A2021/00941 - FERRARI S.P.A. Class 21. TOY CAR

A2021/00965 - Komase Benjamin Mashao, Thabang Horn Mathobela Class 2. NECKWEAR

A2021/00940 - FERRARI S.P.A. Class 12. CAR

A2021/00938 - FERRARI S.P.A. Class 12. CAR

A2021/00942 - FERRARI S.P.A. Class 21. TOY CAR

- APPLIED ON 2021/08/10 -

A2021/00949 - Peloton Interactive, Inc. Class 24. HEART RATE MONITORS

A2021/00950 - Peloton Interactive, Inc. Class 14. HUBS FOR MEDIA SYSTEMS

A2021/00952 - Peloton Interactive, Inc. Class 14. MEDIA SYSTEMS

A2021/00955 - K2018380756 (PTY) LTD. Class 28. HAIR FASTENER

F2021/00956 - K2018380756 (PTY) LTD. Class 28. HAIR FASTENER

A2021/00948 - Peloton Interactive, Inc. Class 24. MONITORING DEVICES

A2021/00951 - Peloton Interactive, Inc. Class 14. MOUNTS FOR MEDIA SYSTEMS

A2021/00954 - Peloton Interactive, Inc. Class 14. REMOTES FOR MEDIA SYSTEMS

A2021/00947 - Peloton Interactive, Inc. Class 13. CHARGERS FOR HEART RATE MONITORS

A2021/00953 - Peloton Interactive, Inc. Class 13. POWER SUPPLY UNITS

A2021/00945 - F&I BEVERAGES AG Class 09. BEVERAGE BOTTLES

A2021/00946 - Peloton Interactive, Inc. Class 24. STRAPS FOR HEART RATE MONITORS

- APPLIED ON 2021/08/11 -

A2021/00957 - BOWLER PLASTICS (PTY) LTD Class 09. A BOTTLE

. - APPLIED ON 2021/08/12 -

F2021/00960 - Cover My Books (Proprietary) Limited Class 19. PAGE OF AN EXERCISE BOOK

F2021/00961 - Cover My Books (Proprietary) Limited Class 19. PAGE OF AN EXERCISE BOOK

A2021/00959 - Cover My Books (Proprietary) Limited Class 19. PAGE OF AN EXERCISE BOOK

F2021/00958 - Barend Christiaan Kok, Carrie Anne Yvonne Troxler Class 6. WORKSTATION

. - APPLIED ON 2021/08/13 -

F2021/00963 - Cover My Books (Proprietary) Limited Class 19. PAGE OF AN EXERCISE BOOK

A2021/00966 - NICHOLAS WOODROW Class 22. LID

F2021/00967 - NICHOLAS WOODROW Class 22. LID

A2021/00962 - Cover My Books (Proprietary) Limited Class 19. PAGE OF AN EXERCISE BOOK

A2021/00964 - Cover My Books (Proprietary) Limited Class 19. PAGE OF AN EXERCISE BOOK

. - APPLIED ON 2021/08/16 -

A2021/00968 - THE ADDAX AND ORYX GROUP PLC Class 32. LOGO

A2021/00970 - THE ADDAX AND ORYX GROUP PLC Class 32. LOGO

A2021/00971 - THE ADDAX AND ORYX GROUP PLC Class 32. LOGO

A2021/00969 - THE ADDAX AND ORYX GROUP PLC Class 32. LOGO

. - APPLIED ON 2021/08/17 -

F2021/00972 - I-CAT INTERNATIONAL CONSULTING AND TRADING (PTY) LTD Class 23. A VALVE

A2021/00973 - SUMITOMO RUBBER INDUSTRIES, LTD. Class 12. TIRE FOR AN AUTOMOBILE

. - APPLIED ON 2021/08/18 -

A2021/00974 - DORCO CO., LTD. Class 28. RAZOR HANDLE

. - APPLIED ON 2021/08/19 -

A2021/00975 - Crocs, Inc. Class 2. FOOTWEAR

A2021/00976 - Thabo Elias Phahlamohlaka Class 07. PLASTIC POLONY CONTAINER

. - APPLIED ON 2021/08/20 -

A2021/00980 - Crocs, Inc. Class 2. FOOTWEAR

A2021/00981 - Crocs, Inc. Class 2. FOOTWEAR

A2021/00982 - Crocs, Inc. Class 2. FOOTWEAR

A2021/00977 - Harex Infotech Inc. Class 18. ELECTRONIC CALCULATORS

A2021/00979 - Crocs, Inc. Class 2. FOOTWEAR

A2021/00978 - Crocs, Inc. Class 2. FOOTWEAR

CHANGE OF NAME IN TERMS OF REGULATION 24

Application Number	In the name of	New name
A2015/00739	GYPSY VANDAL RESISTANT SANITARYWARE SALES AND DISTRIBUTION CC	GYPSY IP HOLDINGS (PTY) LTD

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

No records available

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No. A2019/00378
Applicant: RAINBOW FIRE (PTY) (LTD)
Class: 13
Article to which the Design is to be applied: A FIRELIGHTER
Date of lodgment: 18/03/2019

Registrar of Designs

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No. A2019/00377
Applicant: RAINBOW FIRE (PTY) (LTD)
Class: 23
Article to which the Design is to be applied: A FIRELIGHTER
Date of lodgment: 18/03/2019

Registrar of Designs

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No. A2019/00379
Applicant: RAINBOW FIRE (PTY) (LTD)
Class: 23
Article to which the Design is to be applied: A FIRELIGHTER
Date of lodgment: 18/03/2019

Registrar of Designs

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No. A2019/00374
Applicant: RAINBOW FIRE (PTY) (LTD)
Class: 23
Article to which the Design is to be applied: A FIRELIGHTER
Date of lodgment: 18/03/2019

Registrar of Designs

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 11 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 11

Design No. A2019/00376
Applicant: RAINBOW FIRE (PTY) (LTD)
Class: 23
Article to which the Design is to be applied: A FIRELIGHTER
Date of lodgment: 18/03/2019

Registrar of Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgement. **(23)** release date (if applicable). **(DR)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)** Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

N.B.: Date of registration (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

21: A2019/00106 22: 2019-01-14 23:

43: 2021-06-17

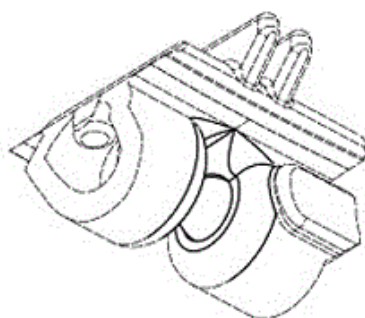
52: Class 12. 24: Part A

71: VENTER, JACQUES

54: Payload Delivery Device

57: The design relates to a payload delivery device.

The features of the design are those of shape and/or configuration.



**ENLARGED BOTTOM PERSPECTIVE
VIEW OF PROXIMAL SECTION**

21: A2019/00505 22: 2019-04-16 23:

43: 2019-04-16

52: Class 25 24: Part A

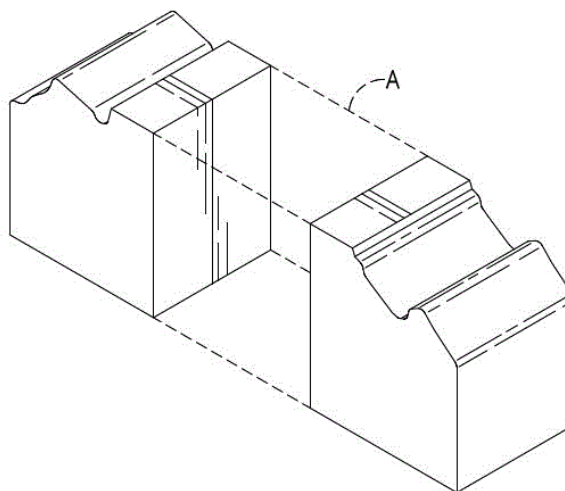
71: WILLIAMS, Clifford

54: Construction element

57: The design is applied to a construction element.

The features of the design for which protection is claimed include the shape and/or configuration and/or ornamentation of a construction element,

substantially as illustrated in the accompanying representations.



Three-dimensional view

21: A2019/01530 22: 2019-10-16 23:

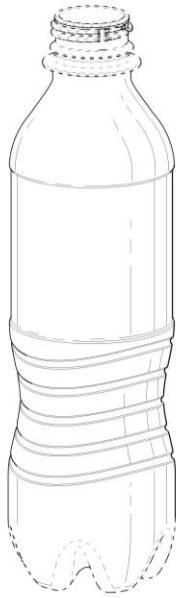
43: 2021-07-01

52: Class 09 24: Part A

71: Clark Brands (Pty) Limited

54: BOTTLE

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the bottle substantially as shown in the accompanying representations. The screwtop formation (indicated in broken lines) does not form a part of the design, and this aspect is specifically disclaimed as forming part of the design protection sought.



PERSPECTIVE VIEW

21: A2019/01531 22: 2019-10-16 23:
43: 2021-07-01

52: Class 09 24: Part A

71: Clark Brands (Pty) Limited

54: BOTTLE

57: This design is intended to be applied to a set of articles. The features of the design for which protection is claimed reside in the shape and/or configuration of the bottle substantially as shown in the accompanying representations. The screwtop formation (indicated in broken lines) does not form a part of the design, and this aspect is specifically disclaimed as forming part of the design protection sought.



PERSPECTIVE VIEW OF
FIRST ARTICLE IN SET

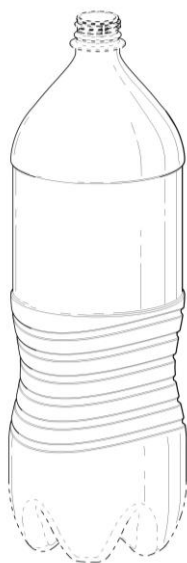
21: A2019/01532 22: 2019-10-16 23:
43: 2021-07-01

52: Class 09 24: Part A

71: Clark Brands (Pty) Limited

54: BOTTLE

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the bottle substantially as shown in the accompanying representations. The screwtop formation (indicated in broken lines) does not form a part of the design, and this aspect is specifically disclaimed as forming part of the design protection sought.



PERSPECTIVE VIEW

21: A2019/01583 22: 2019-10-23 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: HONDA MOTOR CO., LTD.
33: JP 31: 2019-009489 32: 2019-04-26

54: Automobile

57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.

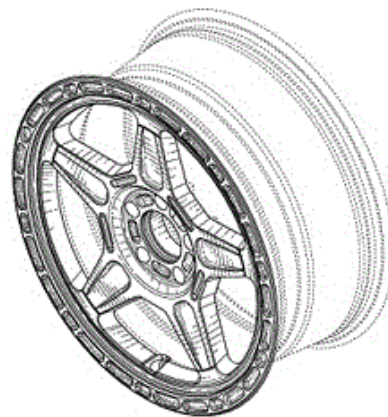


FRONT SIDE PERSPECTIVE VIEW

21: A2019/01631 22: 2019-10-31 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/700,302 32: 2019-08-01

54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

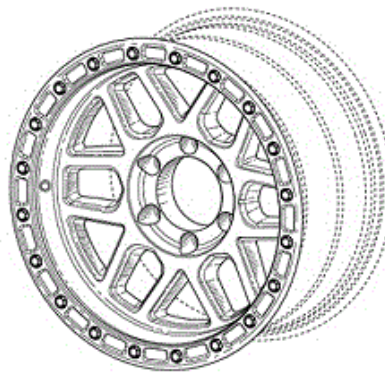


PERSPECTIVE VIEW

21: A2019/01632 22: 2019-10-31 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/701,375 32: 2019-08-12

54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2019/01759 22: 2019-12-05 23:
43: 2019-06-06
52: Class 32 24: Part A
71: BSN medical GmbH
33: EM(DE) 31: 006567244-0020 32: 2019-06-06

54: ORNAMENTATION

57: The design is for ornamentation for, in particular, packaging for medical plasters. The ornamentation comprises a red rectangular body within which a light smaller rectangular member is positioned at a

top half of the body. The member defines a red elongate rectangular strip at a top thereof. Bottom right edges of the member are curved to simulate a bent or folded corner. A rectangular medical plaster protrudes downwardly from a bottom wall of the member. A bottom left corner of the plaster is curved or bent and is separating from its release strip. The plaster has a fabric texture.



Figure 1
Face-on view

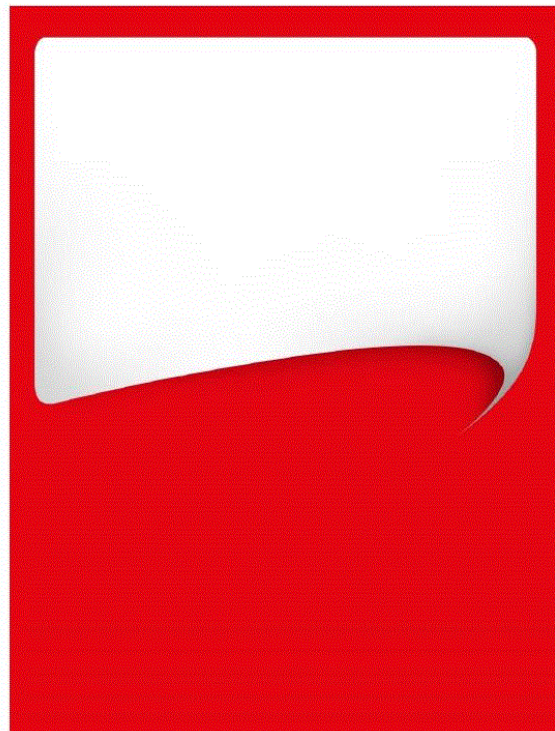


Figure 1
Face-on view

21: A2019/01760 22: 2019-12-05 23:
43: 2019-06-06
52: Class 32 24: Part A
71: BSN medical GmbH
33: EM(DE) 31: 006567244-0028 32: 2019-06-06

54: ORNAMENTATION

57: The design is for ornamentation. The ornamentation comprises a red rectangular body within which a light smaller rectangular member is positioned at a top half of the body. Bottom edges of the member are curved to simulate a bent or folded corner.

21: A2019/01766 22: 2019-12-09 23:
43: 2021-06-17

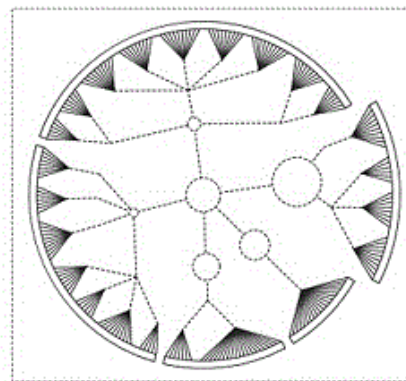
52: Class 14. 24: Part A

71: BOSTONGENE CORPORATION

33: US 31: 29/694,305 32: 2019-06-10

54: Display Screen or Portion Thereof with Graphical User Interface

57: The design relates to a display screen or portion thereof with a graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT VIEW

21: A2019/01789 22: 2019-12-11 23:
43: 2019-06-12
52: Class 13 24: Part A
71: Techtronic Cordless GP
33: US 31: 29/694,582 32: 2019-06-12

54: BATTERY PACKS

57: The design is for a battery pack and comprises a generally rectangular section having an upper surface, a rear wall and a pair of sidewalls. The upper surface defines a lateral overhang which projects laterally over the sidewalls. A prominent, rectangular recess is defined in the rear wall. Edges of the section generally have thinner bevels, while edges between the rear and side walls have thicker bevels.

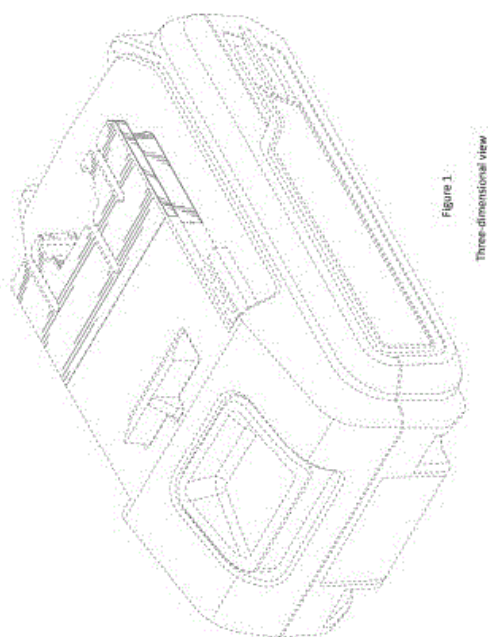
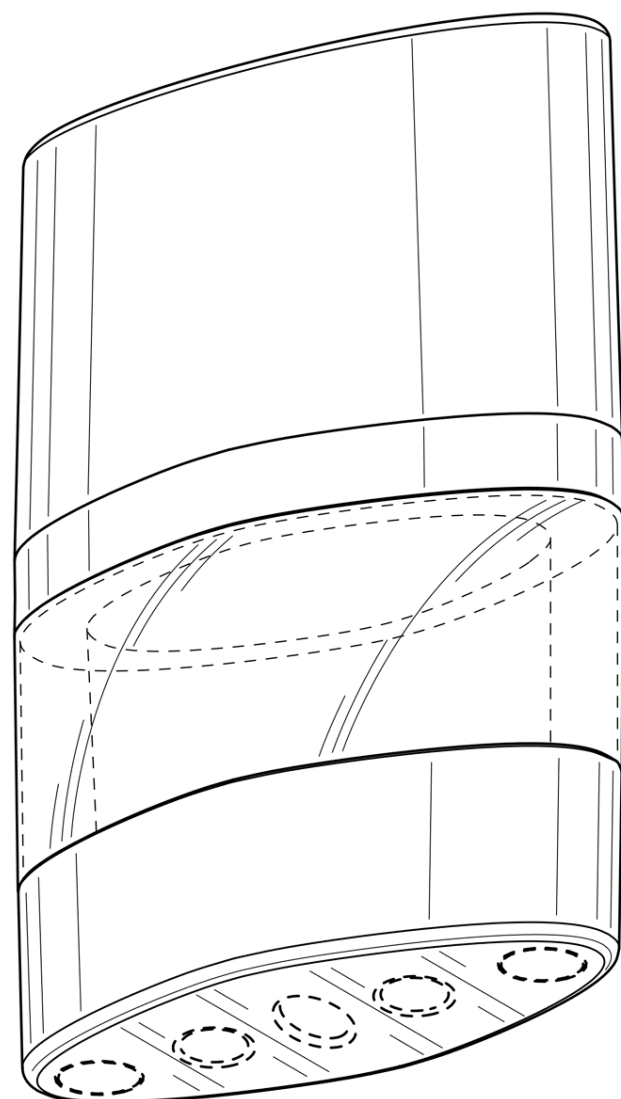


Figure 1
Three-dimensional view



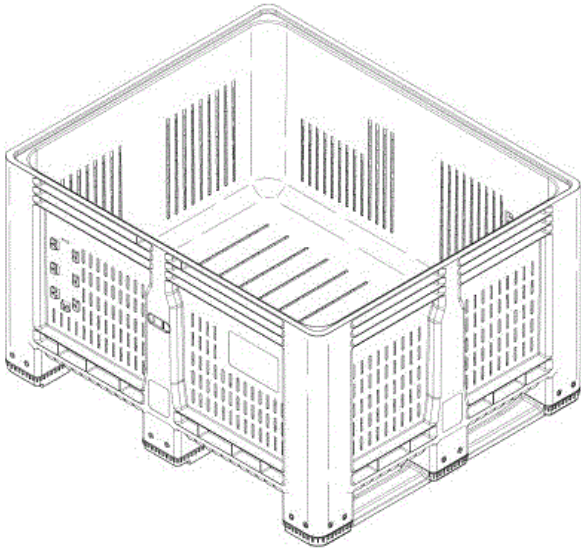
21: A2019/01800 22: 2019-12-12 23:
43: 2021-07-15
52: Class 27 24: Part A
71: RAI STRATEGIC HOLDINGS, INC.
33: US 31: 29/695,205 32: 2019-06-17

54: AEROSOL DELIVERY DEVICE CARTRIDGE

57: The design is applied to an aerosol delivery device cartridge. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the aerosol delivery device cartridge, substantially as illustrated in the accompanying representation. Features shown in broken lines and regions bounded by broken lines do not form part of the design and are disclaimed. Contour lines are provided to indicate contours but do not form part of the design and are also disclaimed.

21: A2019/01824 22: 2019-12-17 23:
43: 2019-12-17
52: Class 9 24: Part A
71: MELAPLASTICS PROPRIETARY LIMITED
54: Bulk Storage Bins

57: The design is applied to a bulk storage bin. The bin has an open-topped box configuration comprising a pallet base and four side walls extending upwardly from the base. The base has two spaced parallel skids along opposite sides of the base and two feet located midway between the skids. The base and the side walls define a plurality of slots providing for drainage of liquids from the bin and ventilation.

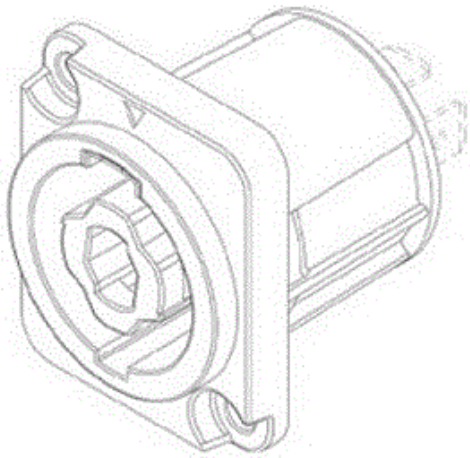


Three-dimensional view from above

21: A2020/00023 22: 2020-01-09 23:
43: 2021-06-17
52: Class 13. 24: Part A
71: NEUTRIK AG
33: IB 31: WIPO85450 32: 2019-07-12

54: Connector

57: The design relates to a connector. The features of the design are those of shape and/or configuration and/or ornamentation.

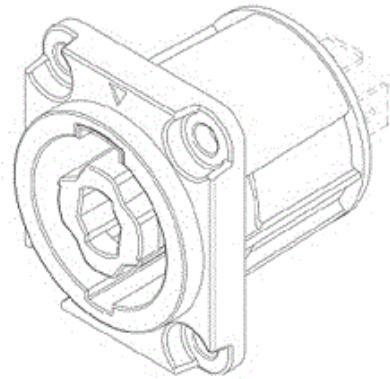
**PERSPECTIVE VIEW**

21: A2020/00024 22: 2020-01-09 23:
43: 2021-06-17
52: Class 13. 24: Part A

71: NEUTRIK AG
33: IB 31: WIPO85450 32: 2019-07-12

54: Connector

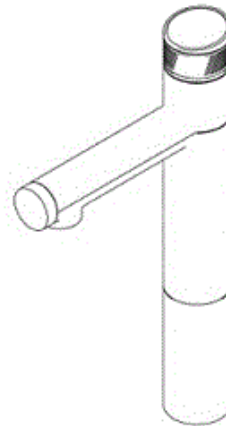
57: The design relates to a connector. The features of the design are those of shape and/or configuration and/or ornamentation.

**PERSPECTIVE VIEW**

21: A2020/00055 22: 2020-01-17 23:
43: 2021-06-17
52: Class 23. 24: Part A
71: ZIP HEATERS (AUSTRALIA) PTY LIMITED
33: AU 31: 201914045 32: 2019-07-18

54: Tap

57: The design relates to a tap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

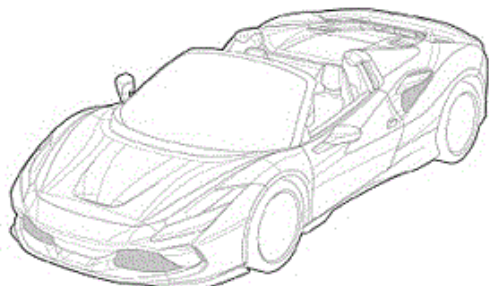
**PERSPECTIVE VIEW**

21: A2020/00059 22: 2020-01-21 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: FERRARI S.P.A.

33: EM 31: 006639233-0001 32: 2019-07-22

54: Car

57: The design relates to a car. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/00060 22: 2020-01-21 23:

43: 2021-06-17

52: Class 21. 24: Part A

71: FERRARI S.P.A.

33: EM 31: 006638292-0001 32: 2019-07-22

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/00076 22: 2020-01-27 23:

43: 2021-07-15

52: Class 08 24: Part A

71: Ian Derek Williams

54: HANDLE

57: The design relates to a Handle. The features of the design are those of shape and/or pattern and/or configuration.



21: A2020/00081 22: 2020-01-27 23:

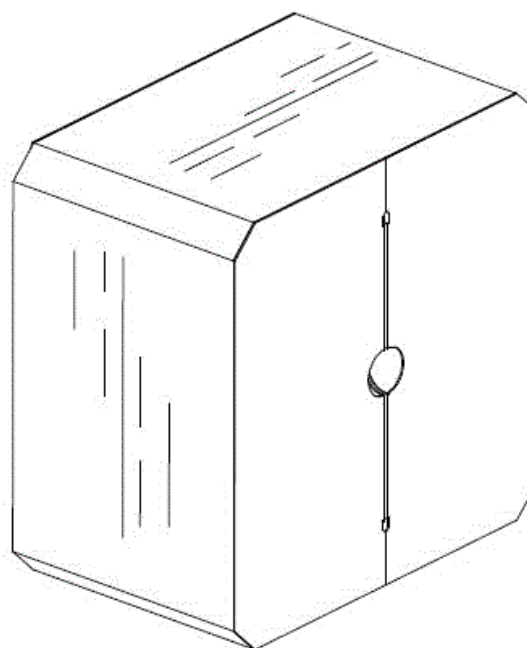
43: 2019-08-15

52: Class 9 24: Part A

71: THE SOUTH AFRICAN BREWERIES
PROPRIETARY LIMITED

54: BOXES

57: The design is for a box as illustrated in the drawings.



21: A2020/00085 22: 2020-01-28 23:

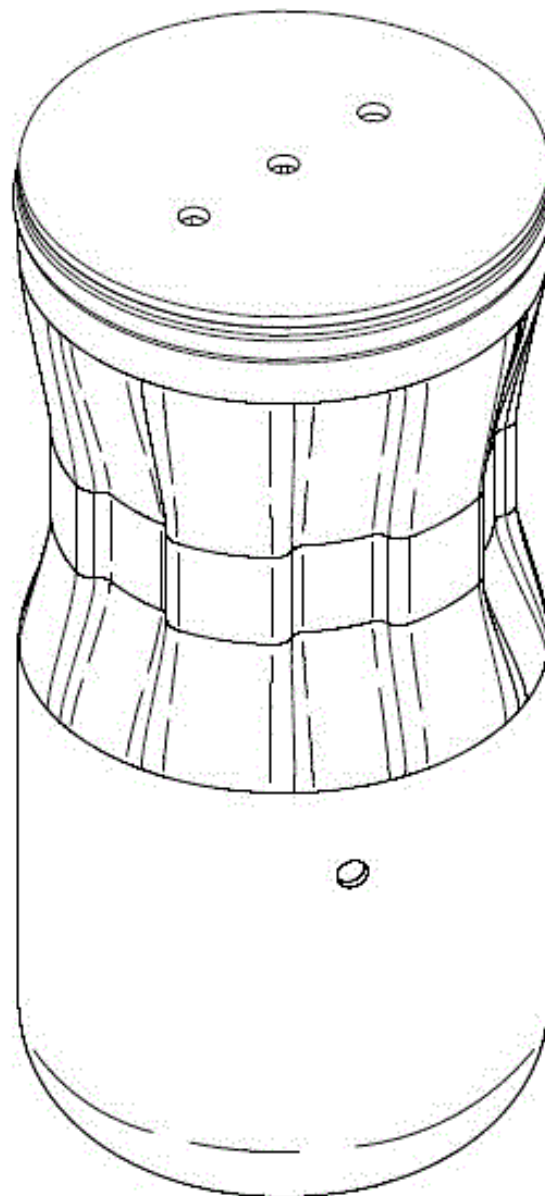
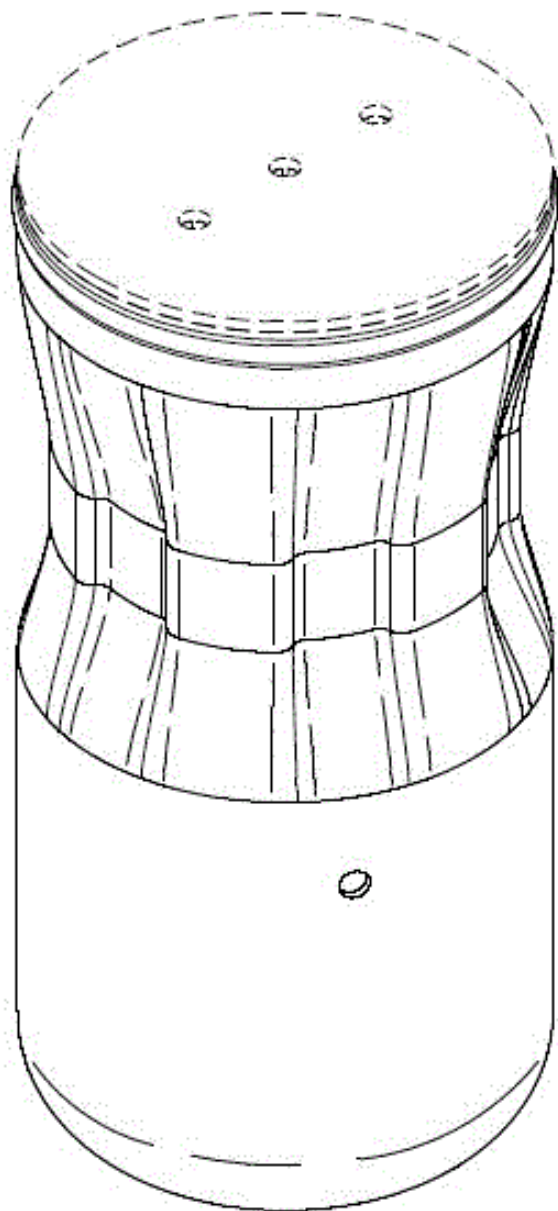
43: 2020-01-28

52: Class 9 24: Part A

71: CONTROL CHEMICALS (PTY) LTD

54: A CONTAINER FOR CHEMICALS

57: The design is for a container for chemicals as shown in the representations.



21: A2020/00087 22: 2020-01-28 23:
43: 2020-01-28
52: Class 9 24: Part A
71: CONTROL CHEMICALS (PTY) LTD
54: A CONTAINER FOR CHEMICALS
57: The design is for a container for chemicals as
shown in the representations.

21: A2020/00089 22: 2020-01-28 23:
43: 2021-06-17
52: Class 9. 24: Part A
71: UNILEVER PLC
33: EM 31: 006679296-0001 32: 2019-08-02
54: Bottle
57: The design relates to a bottle. The features of
the design are those of shape and/or configuration
and/or pattern and/or ornamentation.

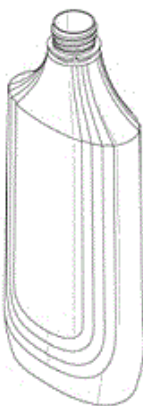


**FRONT PERSPECTIVE VIEW
FROM TOP AND RIGHT SIDE**

21: A2020/00090 22: 2020-01-28 23:
43: 2021-06-17
52: Class 9. 24: Part A
71: UNILEVER PLC
33: EM 31: 006679270-0001 32: 2019-08-02

54: Bottle

57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



**FRONT PERSPECTIVE VIEW
FROM TOP AND RIGHT SIDE**

21: A2020/00091 22: 2020-01-28 23:
43: 2021-06-17
52: Class 9. 24: Part A
71: UNILEVER PLC
33: EM 31: 006679288-0001 32: 2019-08-02

54: Bottle

57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



**FRONT PERSPECTIVE VIEW
FROM TOP AND RIGHT SIDE**

21: A2020/00092 22: 2020-01-28 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: EM 31: 006652210-0001 32: 2019-07-29

54: Car

57: The design relates to a car. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/00093 22: 2020-01-28 23:
43: 2021-06-17
52: Class 21. 24: Part A
71: FERRARI S.P.A.
33: EM 31: 006652236-0001 32: 2019-07-29

54: Toy Car

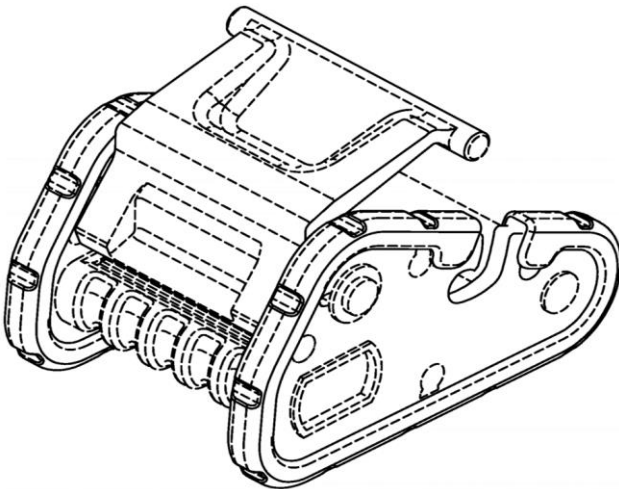
57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/00095 22: 2020-01-29 23:
43: 2021-07-01
52: Class 08 24: Part A
71: WINSTON PRODUCTS, LLC
33: US 31: 29/700,128 32: 2019-07-31
54: CAM BUCKLE

57: The design is applied to a cam buckle. The features of the design for which protection is claimed are those of the shape and/or configuration of the cam buckle, substantially as illustrated in the accompanying representation. Features shown in broken lines and features in regions bounded by broken lines do not form part of the design and are disclaimed.

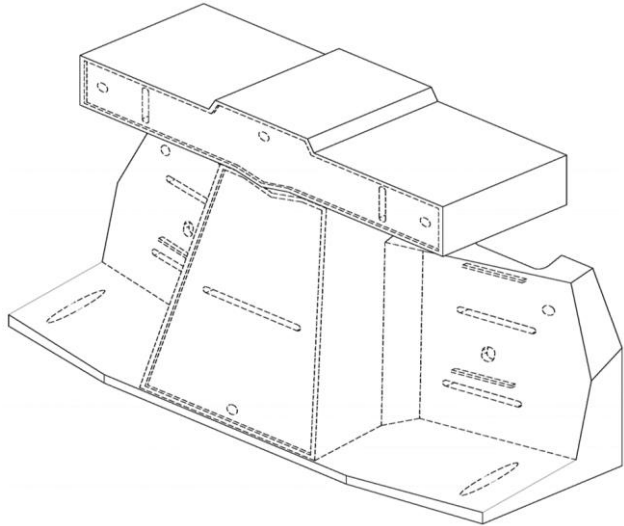


21: A2020/00097 22: 2020-01-29 23:
43: 2021-07-01
52: Class 03 24: Part A
71: WINSTON PRODUCTS, LLC

33: US 31: 29/700,129 32: 2019-07-31

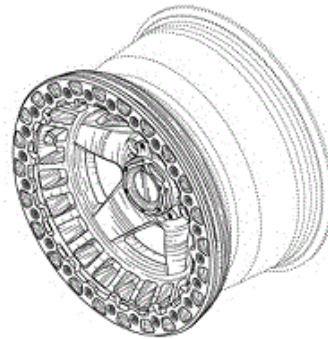
54: STORAGE CASE

57: The design is applied to a storage case. The features of the design for which protection is claimed are those of the shape and/or configuration of the storage case, substantially as illustrated in the accompanying representation. Features shown in broken lines and features in regions bounded by broken lines do not form part of the design and are disclaimed.



21: A2020/00168 22: 2020-02-12 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/723,136 32: 2020-02-04
54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00183 22: 2020-02-13 23:
43: 2021-06-17
52: Class 7. 24: Part A
71: DART INDUSTRIES INC.
33: US 31: 29/703,383 32: 2019-08-27

54: Manual Stand Mixer

57: The design relates to a manual stand mixer. The features of the design are those of shape and/or configuration and/or ornamentation.

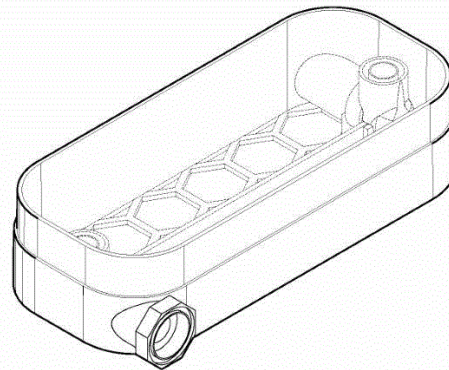


**TOP, FRONT AND RIGHT
SIDE PERSPECTIVE VIEW**

21: A2020/00267 22: 2020-02-27 23:
43: 2020-02-27
52: Class 10 24: Part A
71: GOVENDER, Preevin

54: Bases for water meter housings

57: This design is for a base for a water meter having a sidewall extending transversely from a floor. The sidewall comprises an integral lip for attachment to a main body of a water meter housing, and a pair of ports located on the sidewall to which suitable pipes may be attachable. The sidewall typically comprise generally curved end portions and major parallel main wall portions.

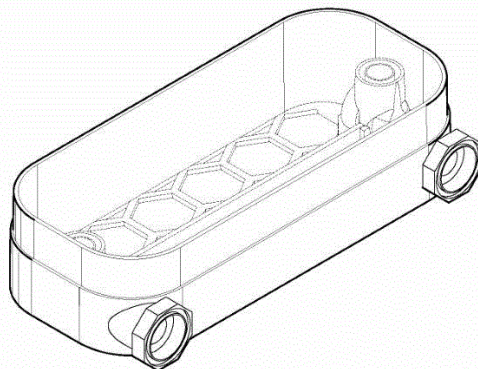


Three-dimensional view

21: A2020/00268 22: 2020-02-27 23:
43: 2020-02-27
52: Class 10 24: Part A
71: GOVENDER, Preevin

54: Bases for water meter housings

57: This design is for a base for a water meter having a sidewall extending transversely from a floor. The sidewall comprises an integral lip for attachment to a main body of a water meter housing, and a pair of ports located on the sidewall to which suitable pipes may be attachable. The sidewall typically comprise generally curved end portions and major parallel main wall portions.



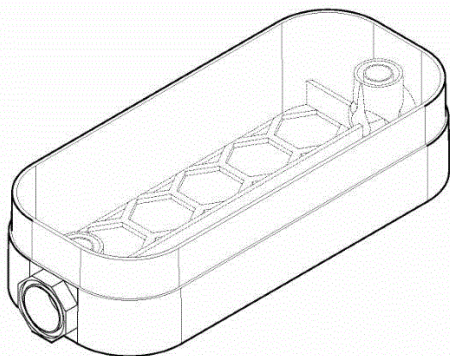
Three-dimensional view

21: A2020/00269 22: 2020-02-27 23:
43: 2020-02-27
52: Class 10 24: Part A
71: GOVENDER, Preevin

54: Bases for water meter housings

57: This design is for a base for a water meter having a sidewall extending transversely from a

floor. The sidewall comprises an integral lip for attachment to a main body of a water meter housing, and a pair of ports located on the sidewall to which suitable pipes may be attachable. The sidewall typically comprise generally curved end portions and major parallel main wall portions.



Three-dimensional view

21: A2020/00317 22: 2020-03-09 23:
43: 2021-06-17

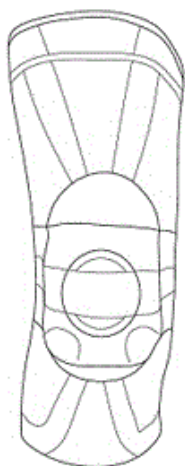
52: Class 24. 24: Part A

71: BAUERFEIND AG

33: EM 31: 006861803-0001 32: 2019-09-12

54: Knee Support

57: The design relates to a knee support. The features of the design are those of shape and/or configuration and/or ornamentation.

**FRONT VIEW**

21: A2020/00357 22: 2020-03-13 23:
43: 2021-06-17

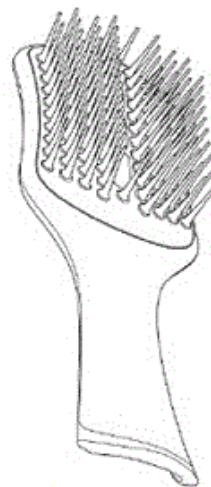
52: Class 4. 24: Part A

71: TANGLE TEEZER LIMITED

33: EM 31: 006917613 32: 2019-09-24

54: Hair Brush

57: The design relates to a hair brush. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**BOTTOM FRONT
PERSPECTIVE VIEW**

21: A2020/00358 22: 2020-03-16 23:

43: 2021-07-15

52: Class 12 24: Part A

71: Josias Kele

54: VEHICLE ACCESSORY

57: The design relates to a Vehicle accessory. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2020/00400 22: 2020-03-23 23:

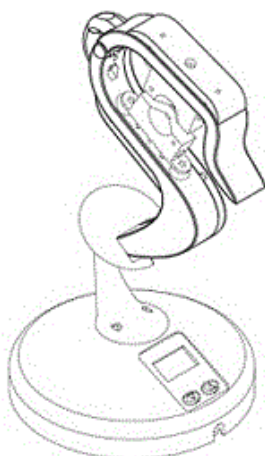
43: 2021-06-17

52: Class 28. 24: Part A

71: TSHWANE UNIVERSITY OF TECHNOLOGY,
SUNSHINE AVENUE (PTY) LTD

54: Braid Sealer Body

57: The design relates to a braid sealer body. The features of the design are those of shape and/or configuration and/or ornamentation.

**PERSPECTIVE VIEW**

21: A2020/00461 22: 2020-05-04 23:
43: 2019-10-09

52: Class 15 24: Part A

71: Flender GmbH

33: EM(DE) 31: 007003181-0001 32: 2019-10-09

54: GEARS

57: The design is for a transmission gear and, more specifically, for a planetary gear unit. The gear unit has an elongate shape, defining a first end, or shaft end, and a second end, or output end. A shaft arrangement protrudes in an axial direction from the first end. A substantially disc-shaped second end portion defines the second end. A housing of the gear unit is defined by largely disc-shaped sections of varying diameters axially arranged between the first end and the second end portion. Axially spaced apart circumferential flange arrangements extend around the housing.

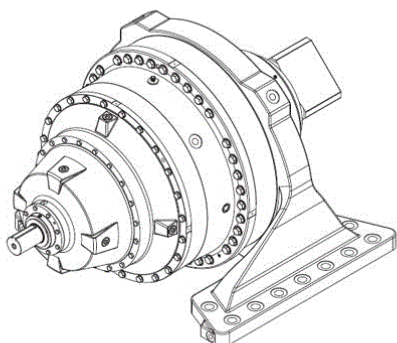


Figure 1
Three-dimensional view

21: A2020/00462 22: 2020-05-04 23:
43: 2019-10-04

52: Class 9 24: Part A

71: PackIt, LLC

33: US 31: 29/708,318 32: 2019-10-04

54: CONTAINERS

57: The ornamental design disclosed herein comprises a collapsible insulated container having an interior cavity surrounded by a base, a pair of side walls, a front wall, a back wall and a lid attached to the back wall by a hinge. A pair of straps extend along each of the side walls and loop above the container. The lid includes a rim which overlaps the top portion of the side walls and the front wall and a fastener removably joins the lid to the front wall.

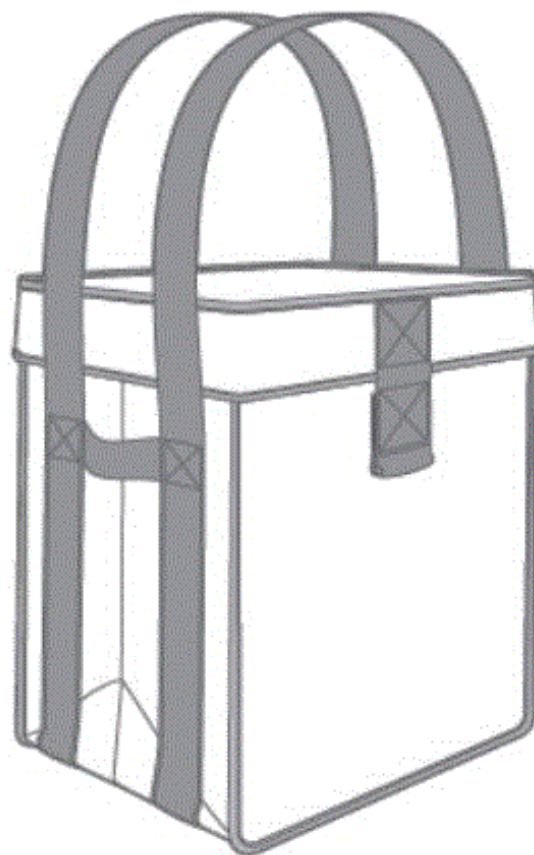


Figure 1

Three-dimensional view in an
uncollapsed configuration

21: A2020/00479 22: 2020-05-04 23:
43: 2020-05-04

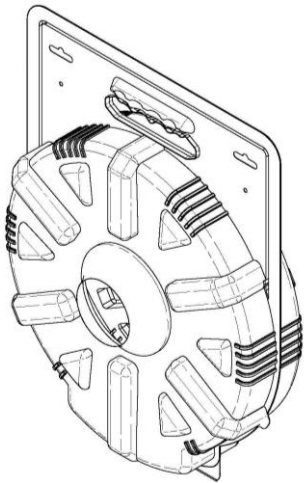
52: Class 9 24: Part A

71: GRIFFIN, Richard

54: DISPENSING PACKAGING

57: The design is for dispensing package which is suitable for holding and dispensing a filamentary

product such as a coil of wire or electrical cable. The package includes a hinged body defining a front face and a rear face. The body has a portion that is generally circular in outline when viewed face-on, and a planar flange portion. An aperture is provided centrally in each face of the generally circular portion. The apertures thus are in register and each aperture is defined by a truncated curved conical spout, one of which projects into an interior of the body and one of which projects outwardly away from the interior of the body.



21: A2020/00496 22: 2020-05-04 23:
43: 2021-06-17
52: Class 9. 24: Part A
71: OWENS-BROCKWAY GLASS CONTAINER
INC.

33: US 31: 29/708,787 32: 2019-10-09

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00497 22: 2020-05-04 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: NISSAN JIDOSHA KABUSHIKI KAISHA (ALSO
TRADING AS NISSAN MOTOR CO., LTD.)
33: JP 31: 2019-023104 32: 2019-10-16

54: Automobile

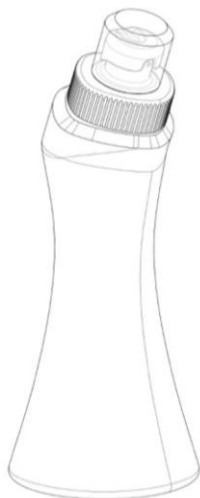
57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/00516 22: 2020-05-05 23:
43: 2020-12-18
52: Class 09 24: Part A
71: Mode Productions (Pty) Ltd
54: A BOTTLE

57: The novelty of the design resides in the shape and/or configuration of a bottle substantially as shown in the accompanying representations.



43: 2020-12-18
52: Class 23 24: Part A
71: Mode Productions (Pty) Ltd

54: A DISPENSER

57: The novelty of the design resides in the shape and/or configuration of a dispenser substantially as shown in the accompanying representations.

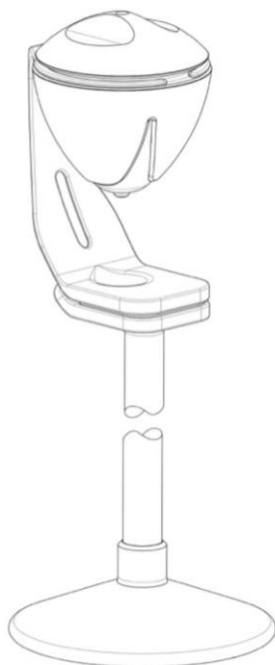


21: A2020/00521 22: 2020-05-05 23:
43: 2020-12-18

52: Class 23 24: Part A
71: Mode Productions (Pty) Ltd

54: A DISPENSER

57: The novelty of the design resides in the shape and/or configuration of a dispenser substantially as shown in the accompanying representations.

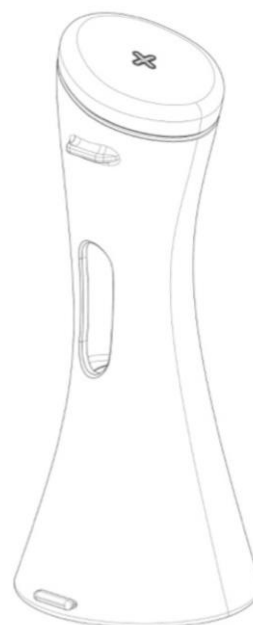


21: A2020/00525 22: 2020-05-05 23:

43: 2020-12-18
52: Class 23 24: Part A
71: Mode Productions (Pty) Ltd

54: A DISPENSER

57: The novelty of the design resides in the shape and/or configuration of a dispenser substantially as shown in the accompanying representations.



21: A2020/00523 22: 2020-05-05 23:

21: A2020/00547 22: 2020-05-07 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/722,962 32: 2020-02-03
54: Wheel

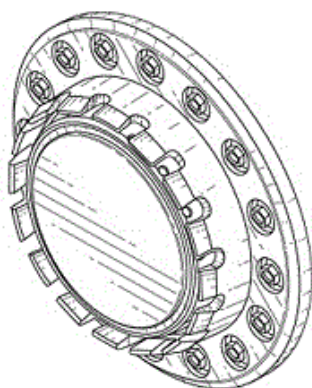
57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00548 22: 2020-05-07 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/722,960 32: 2020-02-03
54: Wheel Cap

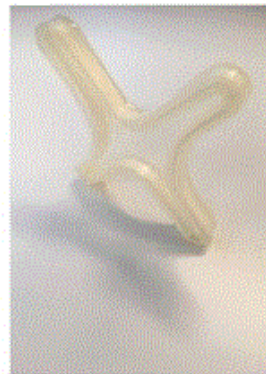
57: The design relates to a wheel cap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00578 22: 2020-05-12 23:
43: 2021-06-17
52: Class 24. 24: Part A
71: BAYER ANIMAL HEALTH GMBH
33: EM 31: 007264817-0002 32: 2019-11-20
54: Vaginal Ring for Oestrus Synchronization in a Cow

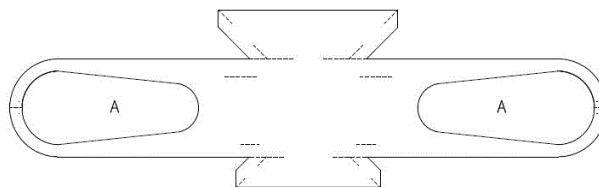
57: The design relates to a vaginal ring for oestrus synchronization in a cow. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/00800 22: 2020-06-11 23:
43: 2020-06-11
52: Class 5 24: Part A
71: YASH FOAM TECHNOLOGIES CC
54: FOLDABLE FACE MASKS

57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: A2020/00813 22: 2020-06-12 23:
43: 2019-12-13
52: Class 9 24: Part A
71: Creanova Universal Closures Ltd.
33: CH 31: 145056 32: 2019-12-13
54: CLOSURE MEANS

57: The design is for a closure means comprising a cylindrical hollow body having a peripheral side wall extending between an open top and bottom end. The side wall tapers gently inwardly as it extends

towards the top end. An upper section of the body includes a protruding collar. The top end includes an arrangement of downwardly slanted linear members around a periphery of the open end.

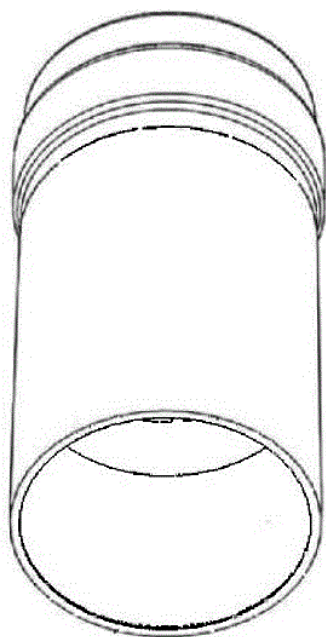


Figure 1
Three-dimensional
view

21: A2020/00814 22: 2020-06-12 23:
43: 2019-12-13

52: Class 9 24: Part A

71: Creanova Universal Closures Ltd.

33: CH 31: 145056 32: 2019-12-13

54: CLOSURE MEANS

57: The design is for a closure means comprising a cylindrical hollow body having a peripheral side wall extending between an open top end and a bottom end. The side wall tapers gently inwardly as it extends towards the top end. An upper section of the body includes a protruding collar. The collar comprises a series of rectangular members. The top end includes an arrangement of downwardly slanted linear members around a periphery of the open end.

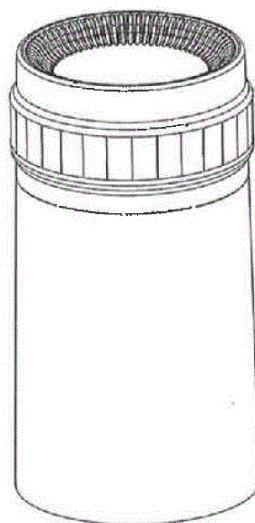


Figure 2
Three-dimensional
view

21: A2020/00815 22: 2020-06-12 23:

43: 2019-12-13

52: Class 9 24: Part A

71: Creanova Universal Closures Ltd.

33: CH 31: 145056 32: 2019-12-13

54: CLOSURE MEANS

57: The design is for a closure means comprising a cylindrical hollow body having a peripheral side wall extending between an open top end and a bottom end. The side wall tapers gently inwardly as it extends towards the top end. An upper section of the body includes a protruding collar. The top end includes a ring comprising a series of square members. An inner periphery of the top end includes a downwardly slanted lip.



Figure 2
Three-dimensional
view

21: A2020/00816 22: 2020-06-12 23:

43: 2019-12-13

52: Class 9 24: Part A

71: Creanova Universal Closures Ltd.

33: CH 31: 145056 32: 2019-12-13

54: CLOSURE MEANS

57: The design is for a closure means comprising a cylindrical hollow body having a peripheral side wall extending between an open top end and a bottom end. The side wall tapers gently inwardly as it extends towards the top end. An upper section of the body includes a protruding collar comprising a series of rectangular members. The top end includes a ring comprising a series of square members. An inner periphery of the top end includes a downwardly slanted lip.

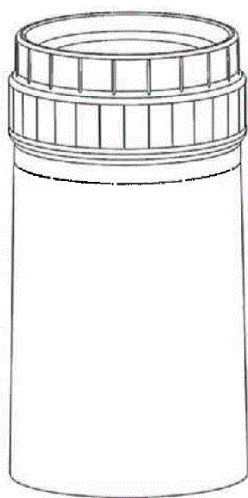


Figure 2
Three-dimensional view

21: A2020/00950 22: 2020-07-09 23:

43: 2021-06-17

52: Class 14. 24: Part A

71: CEPHEID

33: US 31: 29/720,274 32: 2020-01-10

54: Command Pod Module

57: The design relates to a command pod module. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/01006 22: 2020-07-20 23:

43: 2021-07-15

52: Class 21 24: Part A

71: Trix Roux

54: GAME BOARD

57: The design relates to a Game board. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



Top view

21: A2020/01032 22: 2020-07-28 23:

43: 2020-01-29
 52: Class 10 24: Part A
 71: Turlen Holding SA
 33: HSIRID(CH) 31: DM/206557 32: 2020-01-29

54: WATCHES

57: The design is for a watch. A dial of the watch is transparent to reveal inner clockwork. The dial and hands of the watch are inspired by automobile dials. Triangular markers are spaced along a periphery of the dial. A bezel insert comprises twelve spaced circular indents with a star-like formation provided in each indent. An oversized crown is provided on a side of the watch and has a spiral knurled surface to improve gripping. The design of the crown is inspired by a rim of a car. A central portion of the rear surface is transparent. Four circular indents with a star-like formation in each indent are spaced along each side of the rear transparent portion.



Figure 1
 Three-dimensional view

21: A2020/01114 22: 2020-08-17 23:
 43: 2021-06-17
 52: Class 7. 24: Part A
 71: DART INDUSTRIES INC.
 33: US 31: 29/726,922 32: 2020-03-06

54: Drinking Tumbler with Cap

57: The design relates to a drinking tumbler with a cap. The features of the design are those of shape and/or configuration and/or ornamentation.

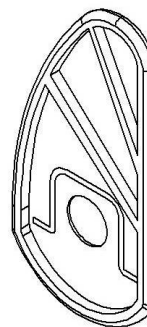


TOP PERSPECTIVE VIEW

21: A2020/01125 22: 2020-08-19 23:
 43: 2021-07-01
 52: Class 09 24: Part A
 71: CANPACK SPÓKA AKCYJNA
 33: EU 31: 007871918-0001 32: 2020-05-26

54: PACKAGING OPENERS

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

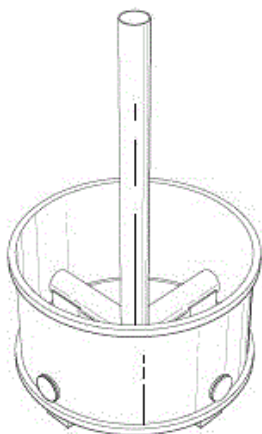


21: A2020/01191 22: 2020-09-02 23:
 43: 2021-06-21
 52: Class 23 24:
 71: HUSKY FOREST SERVICES

54: AN INSERT FOR A KILN

57: The features of the design for which protection is claimed include the shape and/or pattern and/or configuration of an insert for a kiln, substantially as illustrated in the accompanying representations. The

components shown in broken lines do not form part of the design.



TOP PERSPECTIVE VIEW

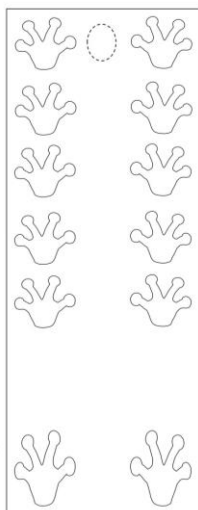
21: A2020/01201 22: 2020-09-03 23:
43: 2021-04-22

52: Class 06 24: Part A

71: YOGETTA KIDS (PTY) LTD

54: AN EXERCISE MAT

57: The novelty of the design resides in the shape and/or configuration and / or pattern and / or ornamentation of an exercise mat, substantially as shown in the accompanying representation.



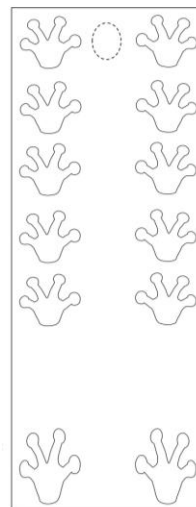
21: A2020/01203 22: 2020-09-03 23:
43: 2021-04-22

52: Class 21 24: Part A

71: YOGETTA KIDS (PTY) LTD

54: AN EXERCISE MAT

57: The novelty of the design resides in the shape and/or configuration and / or pattern and / or ornamentation of an exercise mat, substantially as shown in the accompanying representation.



21: A2020/01212 22: 2020-09-07 23:
43: 2021-06-17

52: Class 12. 24: Part A

71: NISSAN JIDOSHA KABUSHIKI KAISHA (ALSO TRADING AS NISSAN MOTOR CO., LTD.)

33: JP 31: 2020-004680 32: 2020-03-09

54: Automobile

57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

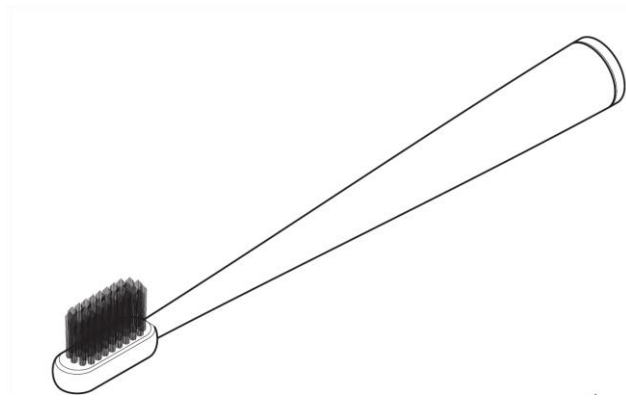
21: A2020/01249 22: 2020-09-18 23:
43: 2021-08-02

52: Class 04 24: Part A

71: Chrismarie Barnardt

54: BRUSH

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and/or ornamentation of a brush as shown in the accompanying representations.



21: A2020/01306 22: 2020-09-29 23:

43: 2021-06-18

52: Class 23 24: Part A

71: HANS GROHE SE

33: EU 31: 007784053-0007 32: 2020-04-03

54: TOWEL RAIL

57: The features of the design for which protection is claimed are those of the shape and/or configuration of the towel rail substantially as illustrated in the accompanying drawing.



21: A2020/01315 22: 2020-09-30 23:

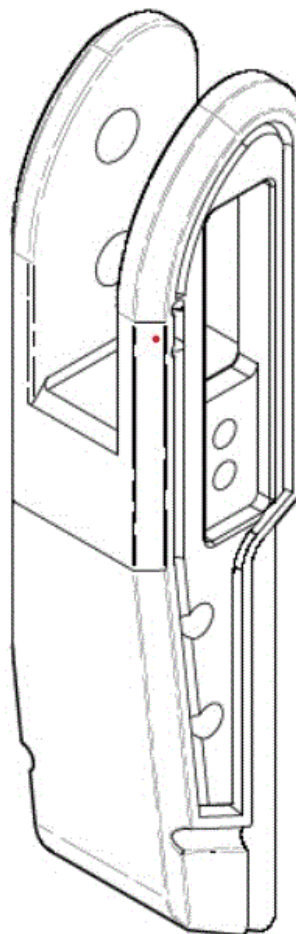
43: 2020-09-30

52: Class 3 24: Part A

71: RESCA, Franco

54: Holsters

57: The design is in respect of a holster body which is machined from a solid block of material. The holster body includes an upper portion comprising a pair of transversely spaced webs which protrude from opposite sides of a lower portion to receive at least part of a trigger guard of a firearm. Various recesses and holes are machined into the holster body. The design extends to a holster assembly incorporating the holster body.



21: A2020/01338 22: 2020-10-07 23:

43: 2021-05-19

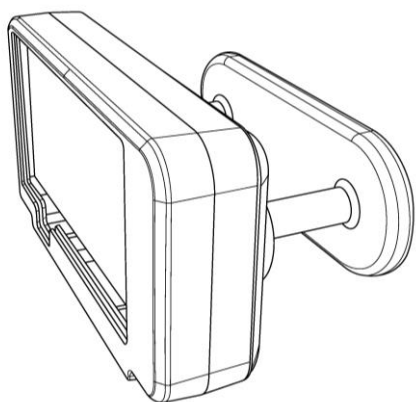
52: Class 30 24: Part A

71: CERES TAG PTY LTD

33: AU 31: 202012113 32: 2020-04-08

54: ANIMAL TAG

57: The design relates to an animal tag for use with an animal tag applicator wherein the tag is applied to an animal. The features of the design for which protection is claimed reside in the shape and/or configuration of the animal tag substantially shown in the accompanying representations.



21: A2020/01354 22: 2020-10-12 23:
43: 2021-06-17
52: Class 12. 24: Part A
71: JANSEN VAN VUUREN, JEREMIJA JESAIJA
54: Screen for a Vehicle
57: The design relates to a screen for a vehicle. The features of the design are those of shape and/or configuration and/or pattern.

**BOTTOM PERSPECTIVE VIEW**

21: A2020/01375 22: 2020-10-21 23:
43: 2021-06-02
52: Class 24 24: Part A
71: SANOFI-AVENTIS DEUTSCHLAND GMBH
33: EU 31: 007878392-0002 32: 2020-05-11
54: INJECTION DEVICE
57: The design is to be applied to an injection device. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation (but excluding the writing thereon), substantially as shown in the representations.

PERSPECTIVE VIEW

21: A2020/01376 22: 2020-10-21 23:
43: 2021-06-02
52: Class 24 24: Part A
71: SANOFI-AVENTIS DEUTSCHLAND GMBH
33: EU 31: 007878392-0003 32: 2020-05-11
54: INJECTION DEVICE
57: The design is to be applied to an injection device. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation (but excluding the writing thereon), substantially as shown in the representations.

PERSPECTIVE VIEW

21: A2020/01377 22: 2020-10-21 23:
43: 2021-06-02
52: Class 24 24: Part A
71: SANOFI-AVENTIS DEUTSCHLAND GMBH
33: EU 31: 007878392-0004 32: 2020-05-11
54: INJECTION DEVICE
57: The design is to be applied to an injection device. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation (but excluding the writing thereon), substantially as shown in the representations.

PERSPECTIVE VIEW

21: A2020/01383 22: 2020-10-22 23:

43: 2021-05-25

52: Class 23 24: Part A

71: FITT S.P.A.

33: EU 31: 007976220-0001 32: 2020-05-29

54: FLXIBLE HOSE

57: The feature of the design for which protection is claimed resides in the ornamentation of a hose to which the colour PANTONE 2573 C is applied to an external surface of the hose substantially as illustrated in the accompanying representation.



21: A2020/01384 22: 2020-10-22 23:

43: 2021-05-25

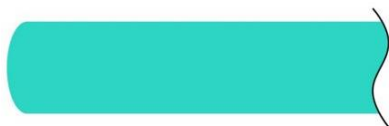
52: Class 23 24: Part A

71: FITT S.P.A.

33: EU 31: 007976220-0001 32: 2020-05-29

54: FLEXIBLE HOSE

57: The feature of the design for which protection is claimed resides in the ornamentation of a hose to which the colour PANTONE 3255 C is applied to an external surface of the hose substantially as illustrated in the accompanying representation.



21: A2020/01391 22: 2020-10-23 23:

43: 2021-07-01

52: Class 09 24: Part A

71: ALPLA Werke Alwin Lehner GmbH & Co. KG

33: CH 31: 145 322 32: 2020-04-23

54: BOTTLE

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01423 22: 2020-11-04 23:

43: 2021-06-02

52: Class 2. 24: Part A

71: CHARNAUD TECHNOLOGIES (PTY) LTD.

54: Boot

57: The design relates to a boot. The features of the design are those of shape and/or configuration and/or pattern.

**TOP SIDE PERSPECTIVE VIEW**

21: A2020/01439 22: 2020-11-06 23:

43: 2020-11-06
 52: Class 9 24: Part A
 71: Pailpac (Pty) Ltd

54: Containers

57: This design is for a container, particularly a stackable narrow mouth container constructed from a synthetic/plastic material colloquially referred to as a jerrican. The container comprises a shell-like top portion having a handle and a mouth opening attached to a shell-like bottom portion at a seal located in a top one third of the height of the container. The container has a generally cuboidal shape with rounded corners and edges. The handle and mouth opening are centrally located and are flanked by stacking formations which engage with complementary stacking formations provided on adjacent containers of the same type. It follows that a base of the bottom portions comprises the complementary stacking formations.

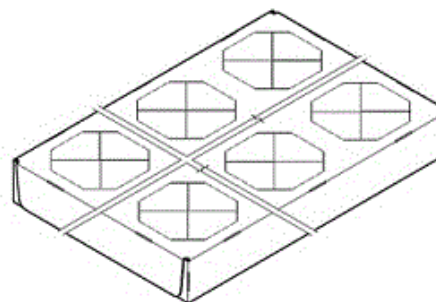


Three-dimensional view

21: A2020/01464 22: 2020-11-11 23:
 43: 2021-06-29
 52: Class 9. 24: Part A
 71: MPACT LIMITED

54: Yoghurt Tray

57: The design is applied to a yoghurt tray. The features of the design are those of shape and/or configuration.

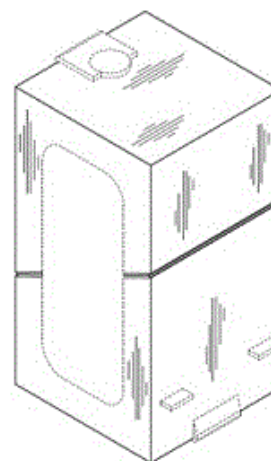


TOP PERSPECTIVE VIEW

21: A2020/01479 22: 2020-11-18 23:
 43: 2021-06-17
 52: Class 9. 24: Part A
 71: UNILEVER PLC
 33: EM 31: 007958459-0001 32: 2020-05-20

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration.

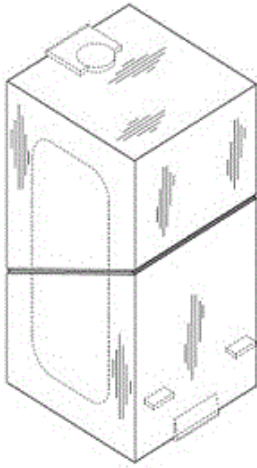


FRONT PERSPECTIVE VIEW

21: A2020/01480 22: 2020-11-18 23:
 43: 2021-06-17
 52: Class 9. 24: Part A
 71: UNILEVER PLC
 33: EM 31: 007958459-0002 32: 2020-05-20

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration.

**FRONT PERSPECTIVE VIEW**

21: A2020/01500 22: 2020-11-19 23:

43: 2021-06-08

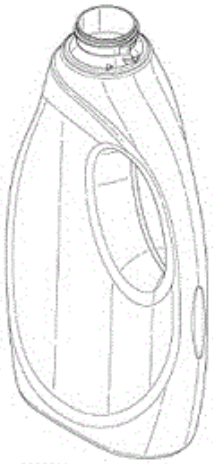
52: Class 9. 24: Part A

71: UNILEVER PLC

33: EM 31: 008177398-0001 32: 2020-09-21

54: Bottle for Liquids

57: The design relates to a bottle for liquids. The features of the design are those of shape and/or configuration.

**FRONT PERSPECTIVE VIEW**

21: A2020/01501 22: 2020-11-19 23:

43: 2021-06-08

52: Class 9. 24: Part A

71: UNILEVER PLC

33: EM 31: 008177398-0002 32: 2020-09-21

54: Bottle for Liquids

57: The design relates to a bottle for liquids. The features of the design are those of shape and/or configuration.

**FRONT PERSPECTIVE VIEW**

21: A2020/01519 22: 2020-11-24 23:

43: 2021-06-08

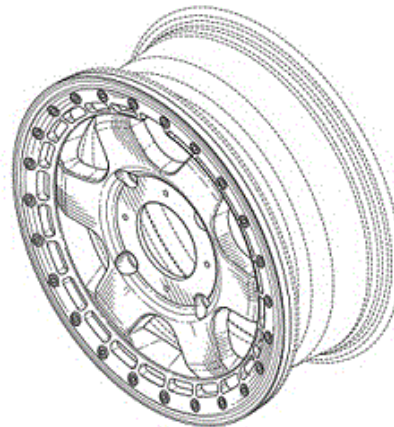
52: Class 12. 24: Part A

71: WHEEL PROS, LLC

33: US 31: 29/750,843 32: 2020-09-16

54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**PERSPECTIVE VIEW**

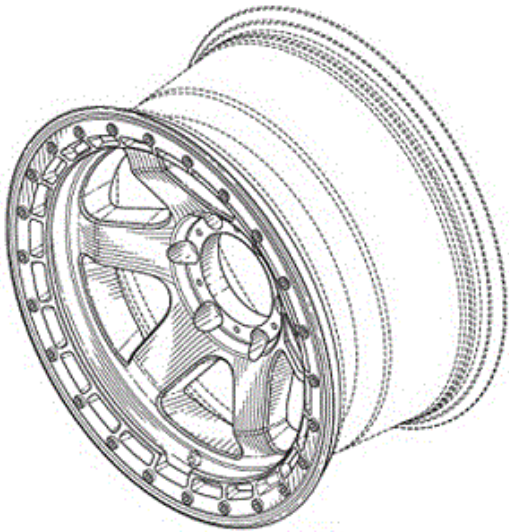
21: A2020/01520 22: 2020-11-24 23:

43: 2021-06-08

52: Class 12. 24: Part A

71: WHEEL PROS, LLC
 33: US 31: 29/750,839 32: 2020-09-16
54: Wheel

57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/01521 22: 2020-11-24 23:
 43: 2021-06-29
 52: Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/750,838 32: 2020-09-16
54: Wheel

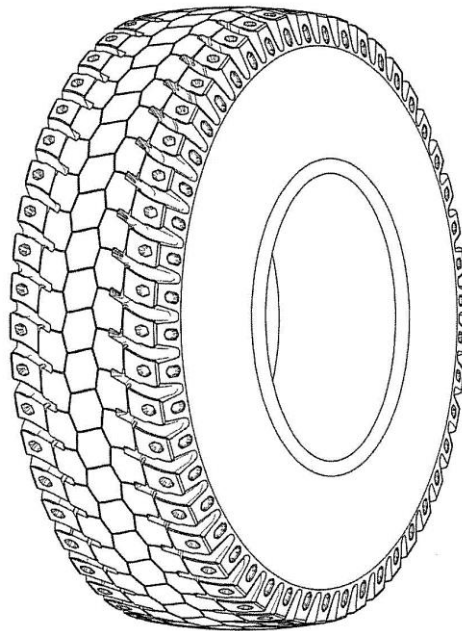
57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/01523 22: 2020-11-25 23:
 43: 2021-06-08
 52: Class 12 24: Part A
 71: COMPAGNIE GENERALE DES
 ETABLISSEMENTS MICHELIN
 33: EU 31: 007983002 32: 2020-06-03
54: PNEUMATIC TYRE

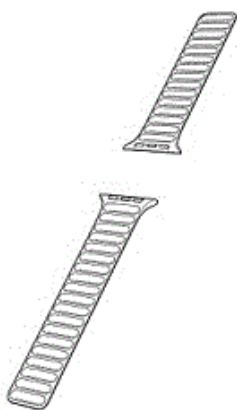
57: The design is to be applied to a pneumatic tyre. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the representations.



PERSPECTIVE VIEW

21: A2020/01526 22: 2020-11-25 23:
 43: 2021-06-29
 52: Class 10. 24: Part A
 71: APPLE INC.
 33: US 31: 29/736,108 32: 2020-05-27
54: Band

57: The design relates to a band. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



**BOTTOM FRONT
PERSPECTIVE VIEW**

21: A2020/01535 22: 2020-11-26 23:

43: 2021-05-25

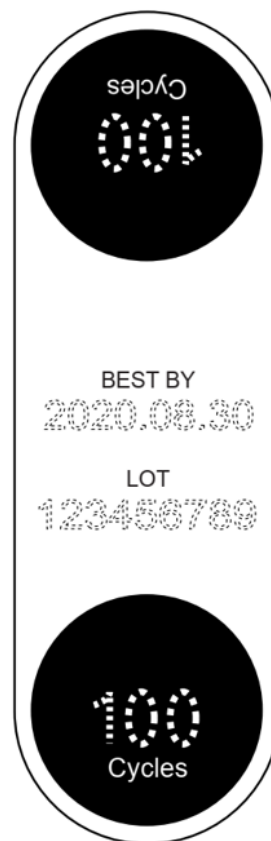
52: Class 19 24: Part A

71: ILLUMINA, INC.

33: US 31: 29/736,055 32: 2020-05-27

54: CARTRIDGE LABEL

57: The design is applied to a cartridge label. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of a cartridge label, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. The cartridge label can be provided in different colours and shading combinations.



21: A2020/01536 22: 2020-11-26 23:

43: 2021-06-21

52: Class 19 24: Part A

71: ILLUMINA, INC.

33: US 31: 29/736,055 32: 2020-05-27

54: CARTRIDGE LABEL

57: The design is applied to a cartridge label. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of a cartridge label, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. The cartridge label can be provided in different colours and shading combinations.



21: A2020/01537 22: 2020-11-26 23:
43: 2021-06-08
52: Class 12. 24: Part A
71: TOYOTA JIDOSHA KABUSHIKI KAISHA
33: JP 31: 2020-010730 32: 2020-05-29

54: Front Bumper for an Automobile

57: The design relates to a front bumper for an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.

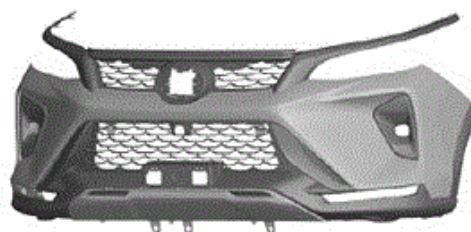


PERSPECTIVE VIEW

21: A2020/01538 22: 2020-11-26 23:
43: 2021-06-08
52: Class 12. 24: Part A
71: TOYOTA JIDOSHA KABUSHIKI KAISHA
33: JP 31: 2020-010731 32: 2020-05-29

54: Front Bumper for an Automobile

57: The design relates to a front bumper for an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/01539 22: 2020-11-26 23:
43: 2021-06-08
52: Class 12. 24: Part A
71: TOYOTA JIDOSHA KABUSHIKI KAISHA
33: JP 31: 2020-010732 32: 2020-05-29

54: Rear Bumper for an Automobile

57: The design relates to a rear bumper for an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.

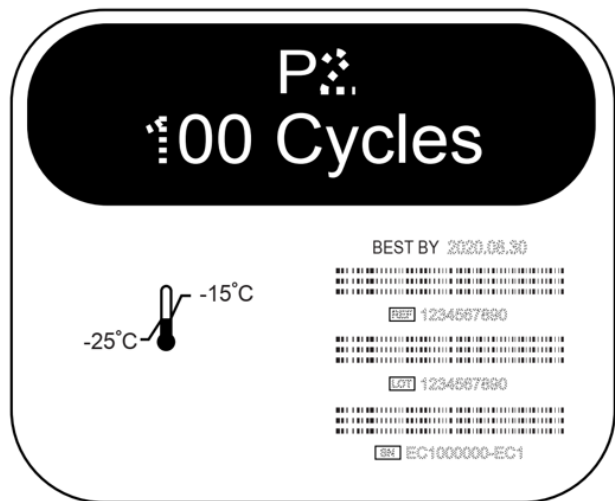


PERSPECTIVE VIEW

21: A2020/01540 22: 2020-11-26 23:
43: 2021-06-21
52: Class 19 24: Part A
71: ILLUMINA, INC.
33: US 31: 29/736,055 32: 2020-05-27

54: CARTRIDGE LABEL

57: The design is applied to a cartridge label. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of a cartridge label, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. The cartridge label can be provided in different colours and shading combinations.



21: A2020/01543 22: 2020-11-27 23:
43: 2021-06-08

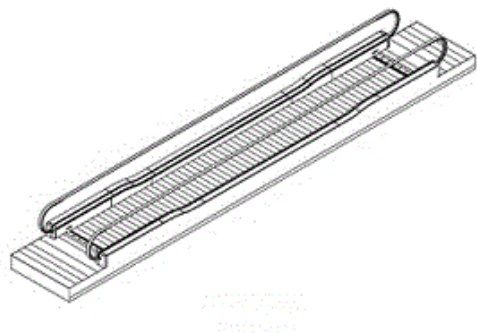
52: Class 12. 24: Part A

71: INVENTIO AG

33: CH 31: 145384 32: 2020-06-15

54: Travelator

57: The design relates to a travelator. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/01547 22: 2020-11-27 23:
43: 2020-05-28

52: Class 12 24: Part A

71: MAN Truck & Bus SE

33: EM(DE) 31: 007974209-0001 32: 2020-05-28

54: BUSES

57: The design is for a bus. Features of the design include a modern line-treatment and large windows to create a significant and precise appearance. Front and rear headliners taper dynamically, and the front of the bus is accentuated by line-flow on the roof panel and respective contrasted bars that extend along sidewalls of the bus. A large, contrasted panel is provided in the center of the front

mask and the headlamps transition dynamically into the sidewalls. The wheelhouses are graphically accentuated and a large, contrasted panel is provided in the rear of the bus. Border details in front and rear masks emphasize a premium-character of the vehicle.

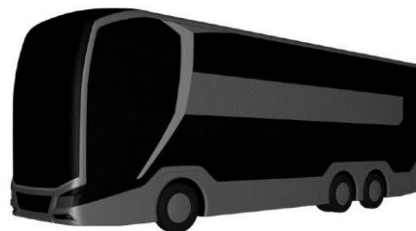


Figure 1

Three-dimensional view

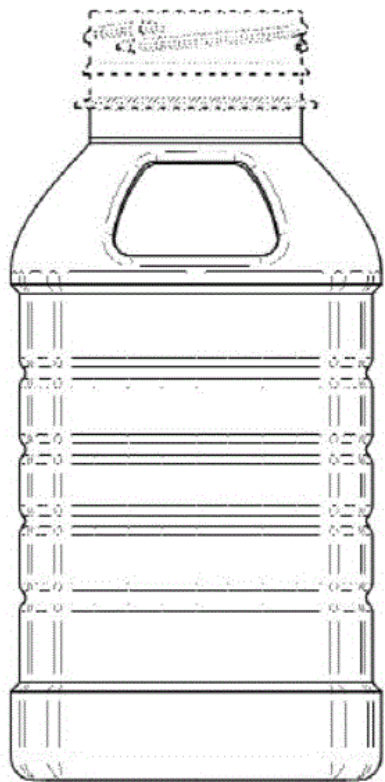
21: A2020/01555 22: 2020-11-30 23:
43: 2020-11-30

52: Class 9 24: Part A

71: NAMPAK PRODUCTS LIMITED

54: CONTAINERS

57: The design is in respect of a bottle which has a generally rectangular base having rounded corners, opposed front and rear walls extending upwardly from opposite sides of the base and opposed side walls extending upwardly from the base between the front and rear walls. A curved shoulder extends upwardly inwardly from the front, rear and side walls and terminates in an upwardly directed neck. A generally trapezoidal display panel is provided on a front and rear of the shoulder. A portion of the front, rear and side walls is recessed and is provided with longitudinally spaced apart parallel recesses which extend around the bottle.



21: A2020/01556 22: 2020-11-30 23:

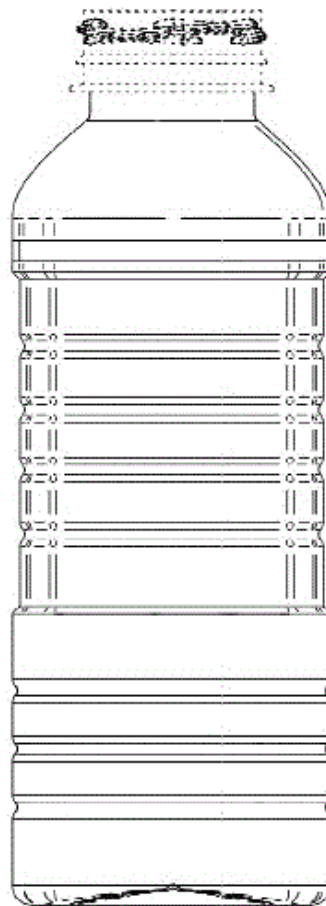
43: 2020-11-30

52: Class 9 24: Part A

71: NAMPAK PRODUCTS LIMITED

54: CONTAINERS

57: The design is in respect of a bottle which includes a generally rectangular base with rounded corners and a side wall which extends upwardly from the base and terminates in an upwardly inwardly inclined curved shoulder. A circular cylindrical neck protrudes upwardly from an upper edge of the shoulder. The side wall includes a lower portion and an upper portion and an intermediate portion which extends between the lower portion and the upper portion and which is recessed relative thereto. Longitudinally spaced apart peripheral recesses are provided in the lower portion and in the intermediate portion.



21: A2020/01557 22: 2020-11-30 23:

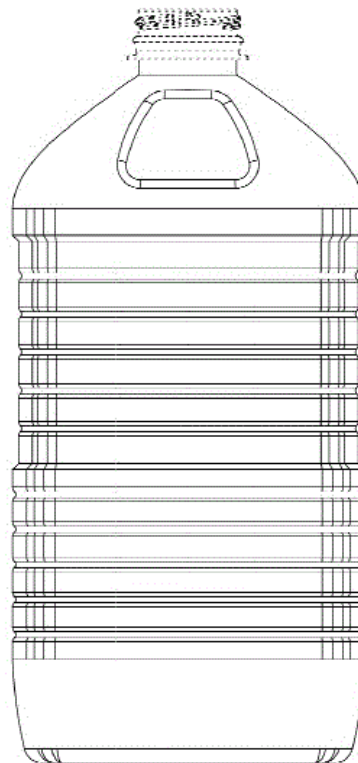
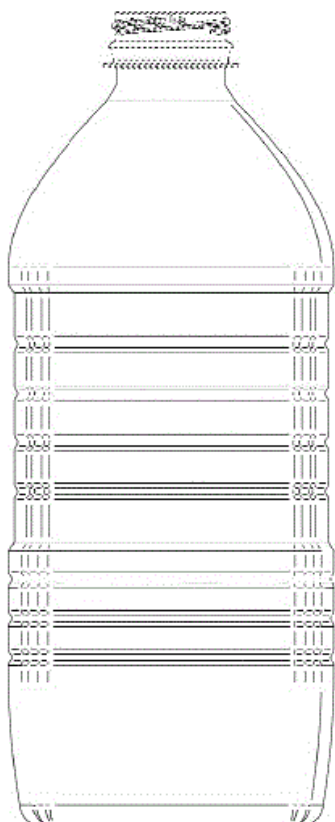
43: 2020-11-30

52: Class 9 24: Part A

71: NAMPAK PRODUCTS LIMITED

54: CONTAINERS

57: The design is in respect of a bottle which includes a generally rectangular base with rounded corners and a side wall which extends upwardly from the base and terminates in an upwardly inwardly inclined curved shoulder. A circular cylindrical neck protrudes upwardly from an upper edge of the shoulder. The side wall includes a lower portion and an upper portion which is recessed relative to the lower portion. Longitudinally spaced apart peripheral recesses are provided in the lower portion and in the upper portion.



21: A2020/01558 22: 2020-11-30 23:

43: 2020-11-30

52: Class 9 24: Part A

71: NAMPAK PRODUCTS LIMITED

54: CONTAINERS

57: The design is in respect of a bottle which includes a generally rectangular base having rounded corners and a side wall which extends upwardly from the base and terminates in an upwardly inwardly inclined curved shoulder. A circular cylindrical neck protrudes upwardly from an upper edge of the shoulder. The side wall includes a lower portion and an upper portion and an intermediate portion which extends between the lower portion and the upper portion and which is recessed relative thereto. Longitudinally spaced apart peripheral recesses are provided in the lower portion and in the intermediate portion. A generally trapezoidal display panel is provided on a front and rear of the shoulder.

21: A2020/01559 22: 2020-11-30 23:

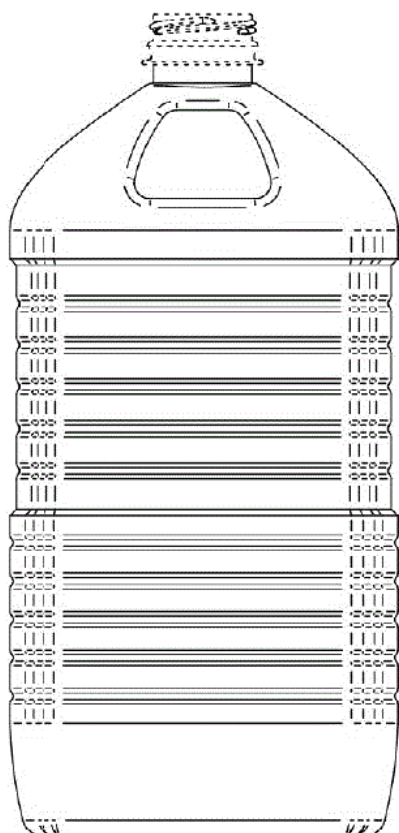
43: 2020-11-30

52: Class 9 24: Part A

71: NAMPAK PRODUCTS LIMITED

54: CONTAINERS

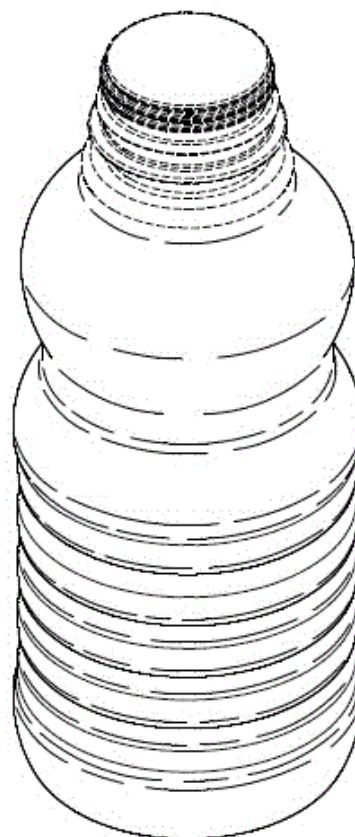
57: The design is in respect of a bottle which includes a generally rectangular base and a side wall which extends upwardly from the base and terminates in an upwardly inwardly inclined curved shoulder. A circular cylindrical neck protrudes upwardly from an upper edge of the shoulder. The side wall includes a lower portion and an upper portion, and an intermediate portion which extends between the lower portion and the upper portion and which is recessed relative thereto. Longitudinally spaced apart peripheral recesses are provided in the lower portion and in the intermediate portion. A generally trapezoidal display panel is provided on a front and rear of the shoulder.



21: A2020/01560 22: 2020-11-30 23:
43: 2020-11-30
52: Class 9 24: Part A
71: NAMPAK PRODUCTS LIMITED

54: CONTAINERS

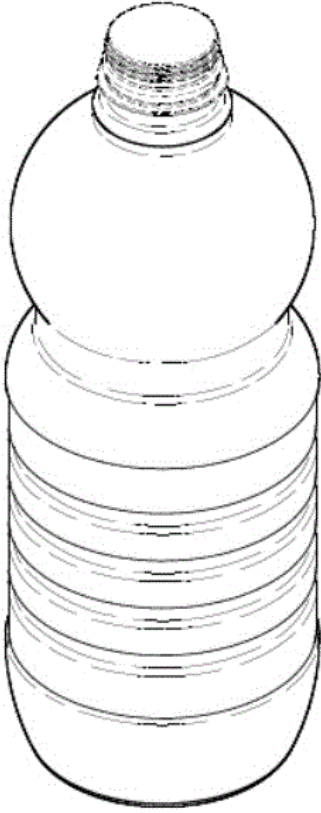
57: The design is in respect of a bottle which includes a circular base and a side wall which extends upwardly from the base and which terminates in a neck. The side wall includes a lower region which is generally circular cylindrical in shape, an upper bulbous region and a circular cylindrical intermediate or waisted region between the lower and upper regions. A plurality of longitudinally spaced apart parallel circumferential recesses is provided in the lower part of the bottle.



21: A2020/01561 22: 2020-11-30 23:
43: 2020-11-30
52: Class 9 24: Part A
71: NAMPAK PRODUCTS LIMITED

54: CONTAINERS

57: The design is in respect of a bottle which includes a circular base and a side wall which extends upwardly from the base and which terminates in a neck. The side wall includes a lower region which is generally circular cylindrical in shape, an upper bulbous region and a circular cylindrical intermediate or waisted region between the lower and upper regions. A plurality of longitudinally spaced apart parallel circumferential recesses is provided in the lower part of the bottle.



21: A2020/01562 22: 2020-11-30 23:

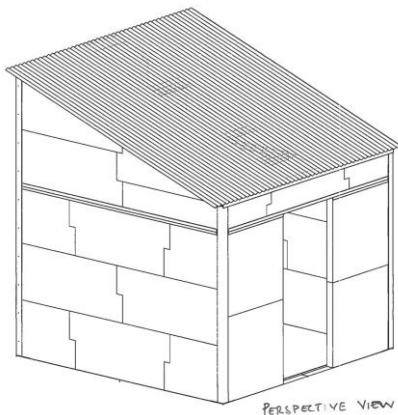
43: 2021-06-24

52: Class 25 24: Part A

71: David Lieberman

54: HOUSING UNIT

57: The design relates to a Housing Unit. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2020/01567 22: 2020-11-30 23:

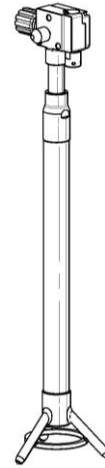
43: 2021-06-24

52: Class 08 24: Part A

71: SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD

54: THRUST LEG

57: The design relates to a THRUST LEG. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of the THRUST LEG substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

21: A2020/01569 22: 2020-11-30 23:

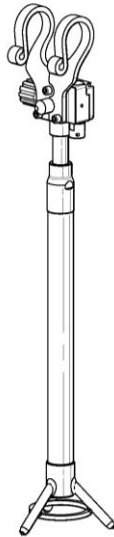
43: 2021-06-24

52: Class 08 24: Part A

71: SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD

54: THRUST LEG

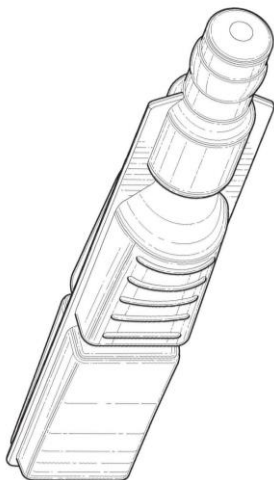
57: The design relates to a THRUST LEG. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of the THRUST LEG substantially as illustrated in the accompanying representations.

FIRST PERSPECTIVE VIEW

21: A2020/01571 22: 2020-12-01 23:
43: 2021-06-29
52: Class 09 24: Part A
71: Koska Family Limited
33: US 31: 29/736,603 32: 2020-06-01

54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

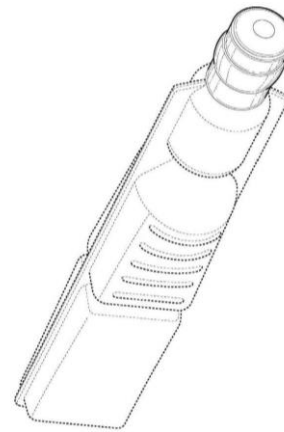


21: A2020/01573 22: 2020-12-01 23:
43: 2021-07-21
52: Class 09 24: Part A
71: Koska Family Limited

33: US 31: 29/736,603 32: 2020-06-01

54: SEALED FLUID CONTAINER

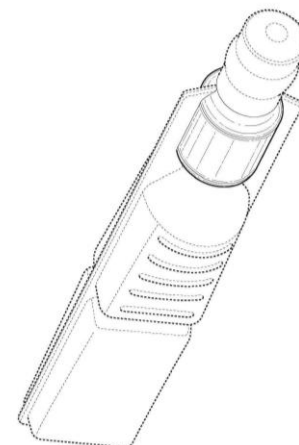
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01575 22: 2020-12-01 23:
43: 2021-07-21
52: Class 09 24: Part A
71: Koska Family Limited
33: US 31: 29/736,603 32: 2020-06-01

54: SEALED FLUID CONTAINER

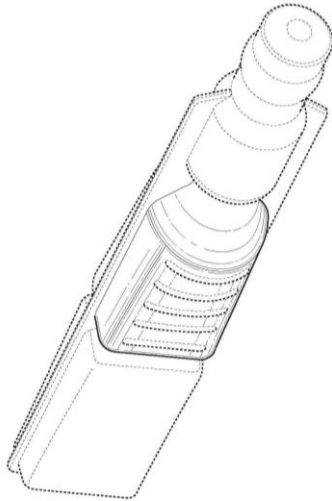
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01577 22: 2020-12-01 23:
43: 2021-07-21
52: Class 09 24: Part A
71: Koska Family Limited
33: US 31: 29/736,603 32: 2020-06-01

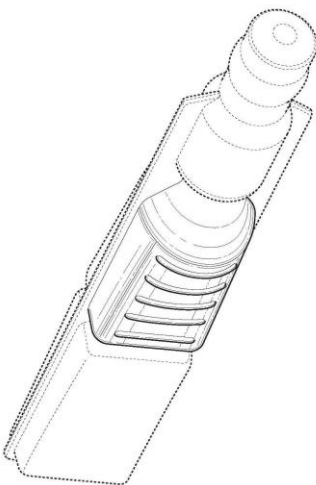
54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01579 22: 2020-12-01 23:
43: 2021-07-21
52: Class 09 24: Part A
71: Koska Family Limited
33: US 31: 29/736,603 32: 2020-06-01
54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

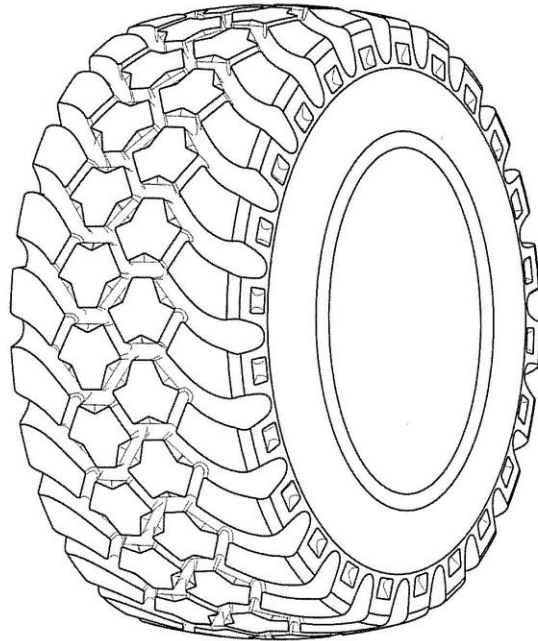


21: A2020/01591 22: 2020-12-07 23:
43: 2021-07-25

52: Class 12 24: Part A
71: COMPAGNIE GENERALE DES
ETABLISSEMENTS MICHELIN
33: EU 31: 008021281 32: 2020-06-24

54: PNEUMATIC TYRE

57: The design is to be applied to a pneumatic tyre. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the representations.

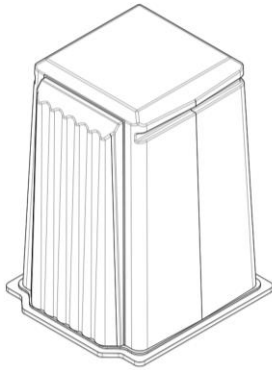


PERSPECTIVE VIEW

21: F2019/00894 22: 2019-07-04 23:
43: 2021-07-15
52: Class 23 24: Part F
71: CREST Solar (Pty) Ltd

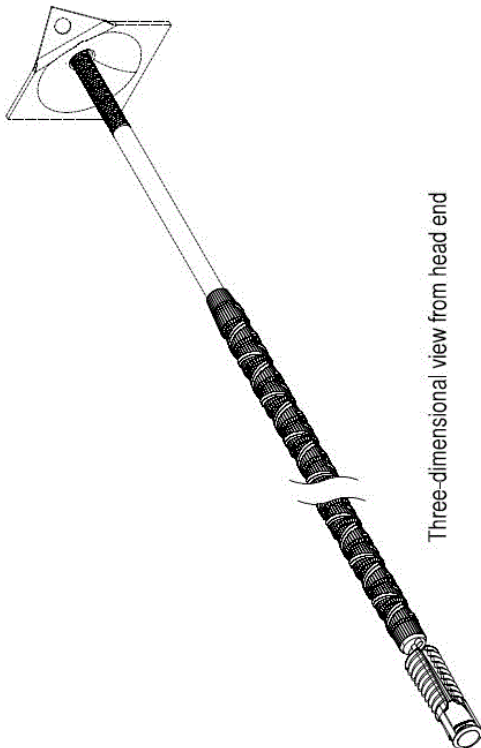
54: TOILET ENCLOSURE

57: The design relates to a toilet enclosure. The features of the design are those of shape, pattern and/or configuration.



21: F2020/00053 22: 2020-01-17 23:
43: 2020-01-17
52: Class 8 24: Part F
71: ROCBOLT TECHNOLOGIES (PTY) LTD.
54: BOLTS

57: The design is for a bolt, specifically a yielding wall bolt. The bolt has an elongate shaft which includes a main body and a region of weakness separating the main body of the shaft from a head end of the shaft. The head end includes an expansion shell. The region of weakness is designed to yield or fail at a predetermined load.



Three-dimensional view from head end

43: 2020-01-20
52: Class 2 24: Part F
71: DELAHARPE, Tandokazi Batandwa
54: COAT

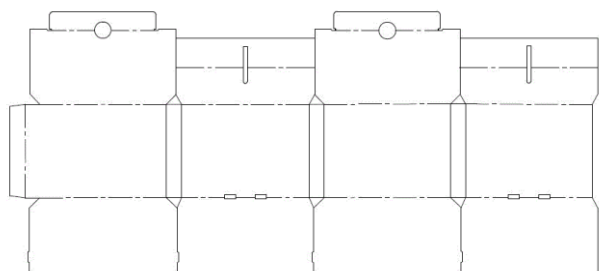
57: The design is applied to a coat. The coat comprises a flexible body comprising an upper opening through which a user's head can extend, in use. The flexible body having a front major panel and a rear major panel, and sleeves extending from opposite sides of the body through which the user's arms can extend, in use; and a securing arrangement attached to the rear panel to allow the securing of the front and rear panels onto each other upon folding the flexible body such that the item of clothing is configured into a cushion for sitting or leaning on. The body further comprises a pocket on the rear panel for accommodating a sound generating accessory, such as a percussion instrument.



21: F2020/00082 22: 2020-01-27 23:
43: 2019-08-15
52: Class 9 24: Part F
71: THE SOUTH AFRICAN BREWERIES
PROPRIETARY LIMITED
54: BLANKS FOR BOXES

57: The design is for a blank for a box as illustrated in the drawings.

21: F2020/00058 22: 2020-01-20 23:



21: F2020/00086 22: 2020-01-28 23:

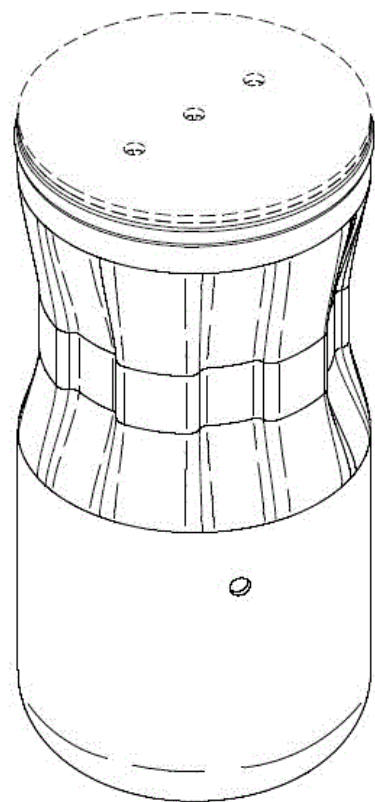
43: 2020-01-28

52: Class 9 24: Part F

71: CONTROL CHEMICALS (PTY) LTD

54: A CONTAINER FOR CHEMICALS

57: The design is for a container for chemicals as shown in the representations.



21: F2020/00088 22: 2020-01-28 23:

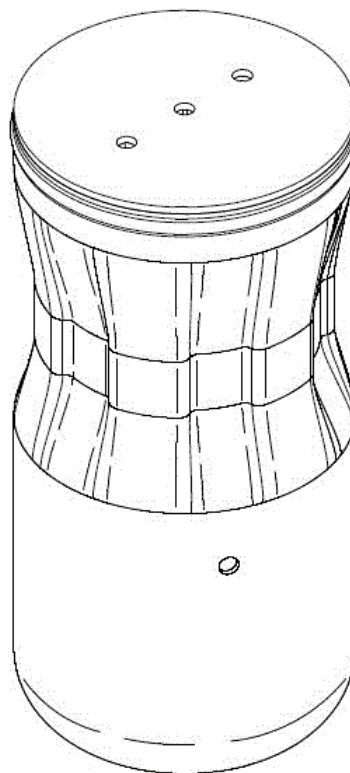
43: 2020-01-28

52: Class 9 24: Part F

71: CONTROL CHEMICALS (PTY) LTD

54: A CONTAINER FOR CHEMICALS

57: The design is for a container for chemicals as shown in the representations.



21: F2020/00096 22: 2020-01-29 23:

43: 2021-07-01

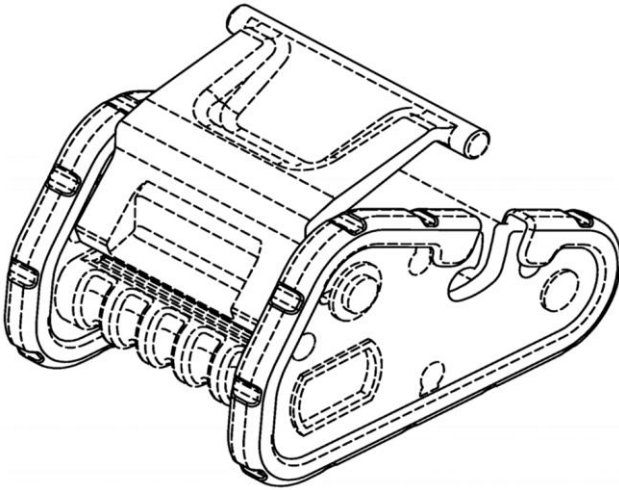
52: Class 08 24: Part F

71: WINSTON PRODUCTS, LLC

33: US 31: 29/700,128 32: 2019-07-31

54: CAM BUCKLE

57: The design is applied to a cam buckle. The features of the design for which protection is claimed are those of the shape and/or configuration of the cam buckle, substantially as illustrated in the accompanying representation. Features shown in broken lines and features in regions bounded by broken lines do not form part of the design and are disclaimed.



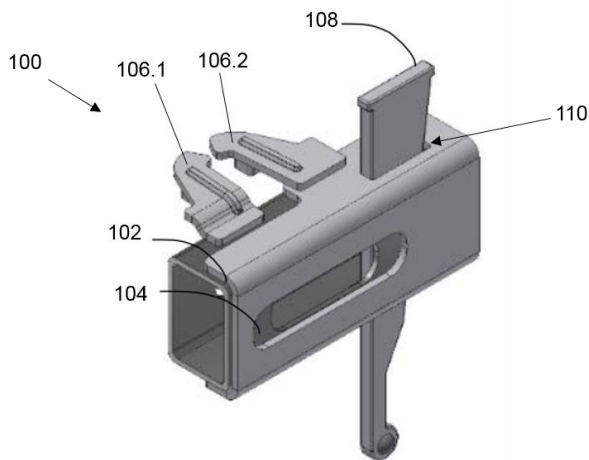
21: F2020/00177 22: 2020-02-13 23:
43: 2021-06-02

52: Class 25 24: Part F

71: PERI GMBH

54: ALIGNMENT CLAMP

57: The design is applied to an alignment clamp. The features of the design for which protection is claimed are those of the shape and/or configuration of the alignment clamp, substantially as illustrated in the accompanying representations. The components other than the alignment clamp shown in Figures 3 to 5 form no part of the design and are disclaimed.



21: F2020/00266 22: 2020-02-27 23:
43: 2020-02-27

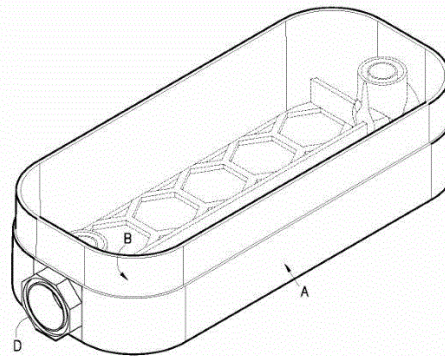
52: Class 10 24: Part F

71: GOVENDER, Preevin

54: Bases for water meter housings

57: This design is for a base for a water meter having a sidewall extending transversely from a

floor. The sidewall comprises an integral lip for attachment to a main body of a water meter housing, and a pair of ports located on the sidewall to which suitable pipes may be attachable. The sidewall typically comprise generally curved end portions and major parallel main wall portions.



Three-dimensional view

21: F2020/00468 22: 2020-05-04 23:

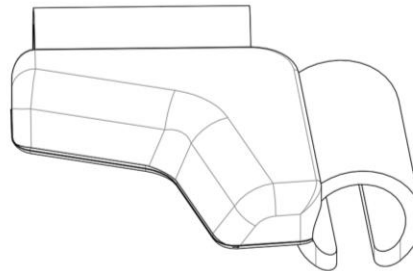
43: 2021-07-15

52: Class 8 24: Part F

71: SIBIYA, Sifiso Alfred

54: SENSOR MOUNT

57: The design relates to a Sensor mount. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/00515 22: 2020-05-05 23:

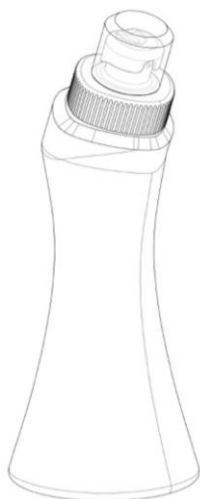
43: 2021-05-03

52: Class 09 24: Part F

71: Mode Productions (Pty) Ltd

54: A BOTTLE

57: The novelty of the design resides in the shape and/or configuration of a bottle substantially as shown in the accompanying representations.

**54: A DISPENSER**

57: The novelty of the design resides in the shape and/or configuration of a dispenser substantially as shown in the accompanying representations.



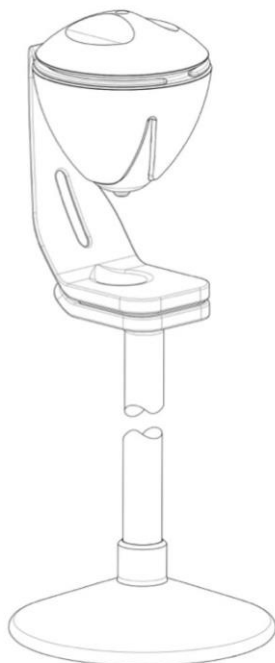
21: F2020/00517 22: 2020-05-05 23:
43: 2020-12-18

52: Class 23 24: Part F

71: Mode Productions (Pty) Ltd

54: A DISPENSER

57: The novelty of the design resides in the shape and/or configuration of a dispenser, substantially as shown in the accompanying representations.



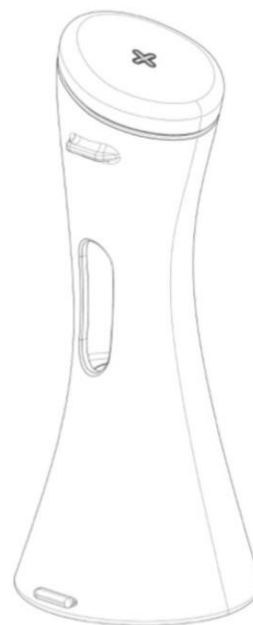
21: F2020/00524 22: 2020-05-05 23:
43: 2020-12-18

52: Class 23 24: Part F

71: Mode Productions (Pty) Ltd

54: A DISPENSER

57: The novelty of the design resides in the shape and/or configuration of a dispenser substantially as shown in the accompanying representations.



21: F2020/00522 22: 2020-05-05 23:
43: 2020-12-18

52: Class 23 24: Part F

71: Mode Productions (Pty) Ltd

21: F2020/00628 22: 2020-05-21 23:
43: 2021-07-01

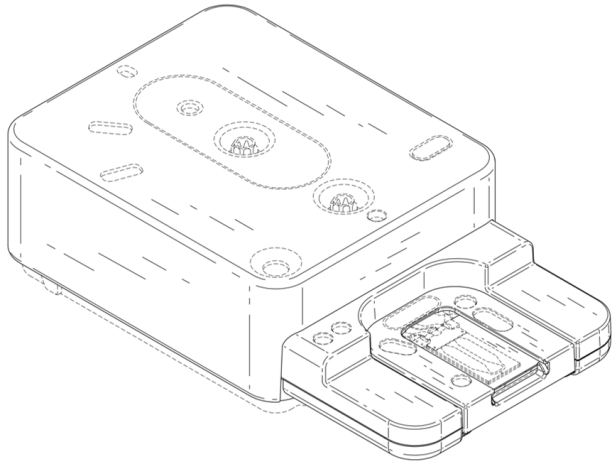
52: Class 24 24: Part F

71: ILLUMINA, INC.

33: US 31: 29/714,661 32: 2019-11-25

54: SEQUENCING CARTRIDGE ASSEMBLY

57: The design is applied to a sequencing cartridge assembly. The features of the design for which protection is claimed are those of the shape and/or configuration of the sequencing cartridge assembly, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Contour lines and surface shading are provided to indicate contours and the surface character but do not form part of the design and are disclaimed.



21: F2020/00772 22: 2020-06-10 23:
43: 2021-07-15

52: Class 12 24: Part F

71: Dr Sipho Mfolozi

54: CASKET LOWERING DEVICE

57: The design relates to a Casket lowering device. The features of the design are those of shape and/or pattern and/or configuration.



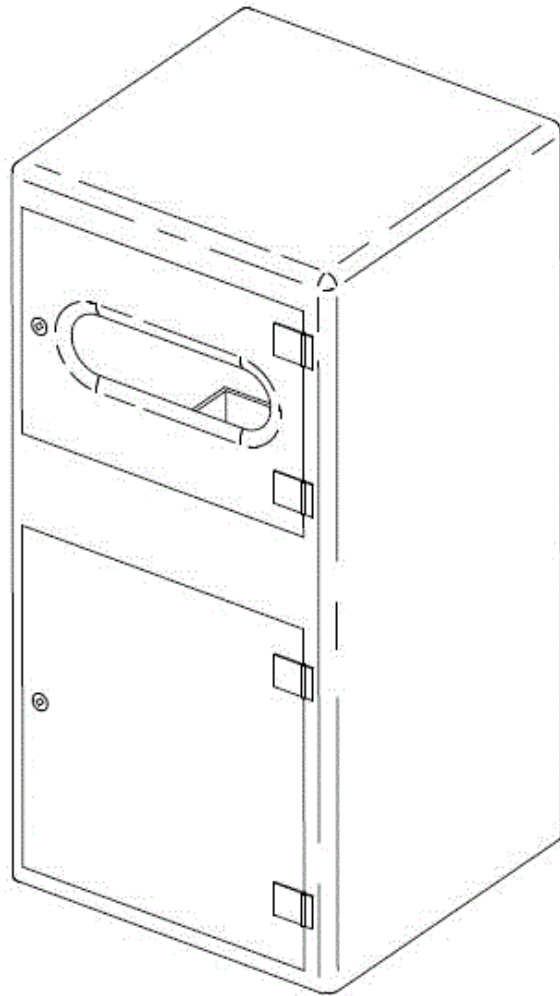
21: F2020/00899 22: 2020-06-26 23:
43: 2020-06-26

52: Class 23 24: Part F

71: CHRIAAN TRUST

54: HAND SANITISING DEVICES

57: The design is for a hand sanitising device, substantially as shown in the accompanying representations.



21: F2020/01007 22: 2020-07-20 23:
43: 2021-07-15

52: Class 21 24: Part F

71: Trix Roux

54: GAME BOARD

57: The design relates to a Game board. The features of the design are those of shape and/or pattern and/or configuration.



Top view

21: F2020/01028 22: 2020-07-27 23:

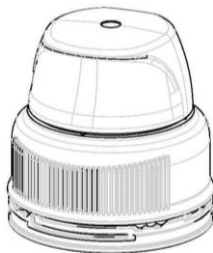
43: 2021-07-01

52: Class 09 24: Part F

71: Polyoak Packaging (Pty) Ltd

54: CÁP

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2020/01144 22: 2020-08-24 23:

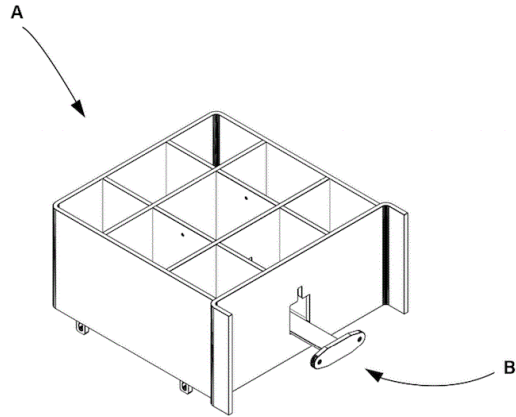
43: 2021-07-15

52: Class 13 24: Part F

71: Jorge Manuel Felicio da Silva

54: LOCKING MODULE

57: The design relates to a Locking module. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01178 22: 2020-09-02 23:

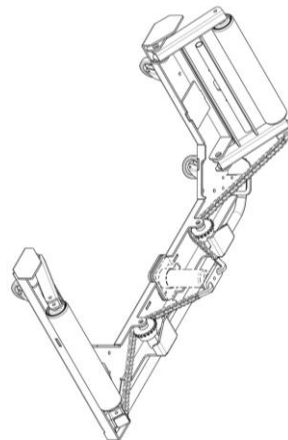
43: 2021-07-15

52: Class 12 24: Part F

71: ROMAO, Marco Moreira; MADEIRA, MADEIRA, Fernando Manual Rosa Romano

54: WHEEL CARRIER

57: The design relates to a Wheel carrier. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01180 22: 2020-09-02 23:

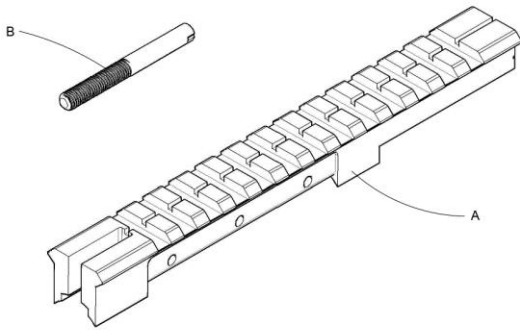
43: 2021-07-15

52: Class 22 24: Part F

71: Wouter van Niekerk

54: SET OF RAIL STABILISER COMPONENTS

57: The design relates to a Set of rail stabiliser components. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01192 22: 2020-09-02 23:

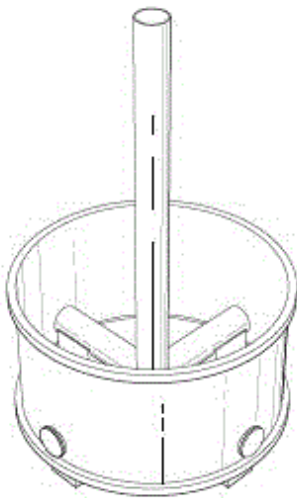
43: 2021-06-18

52: Class 23 24:

71: HUSKY FOREST SERVICES

54: AN INSERT FOR A KILN

57: The features of the design for which protection is claimed include the shape and/or pattern and/or configuration of an insert for a kiln, substantially as illustrated in the accompanying representations. The components shown in broken lines do not form part of the design.



TOP PERSPECTIVE VIEW

21: F2020/01200 22: 2020-09-03 23:

43: 2021-04-22

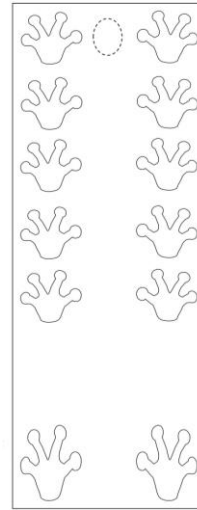
52: Class 06 24: Part F

71: YOGETTA KIDS (PTY) LTD

54: AN EXERCISE MAT

57: The novelty of the design resides in the shape and/or configuration and / or pattern and / or

ornamentation of an exercise mat, substantially as shown in the accompanying representation.



21: F2020/01202 22: 2020-09-03 23:

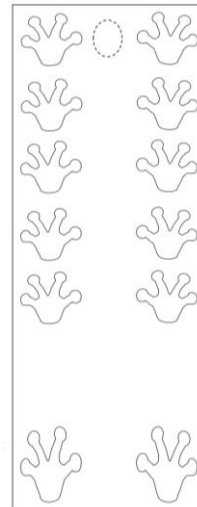
43: 2021-04-22

52: Class 21 24: Part F

71: YOGETTA KIDS (PTY) LTD

54: AN EXERCISE MAT

57: The novelty of the design resides in the shape and/or configuration and / or pattern and / or ornamentation of an exercise mat, substantially as shown in the accompanying representation.



21: F2020/01258 22: 2020-09-21 23:

43: 2021-06-18

52: Class 24 24: Part F

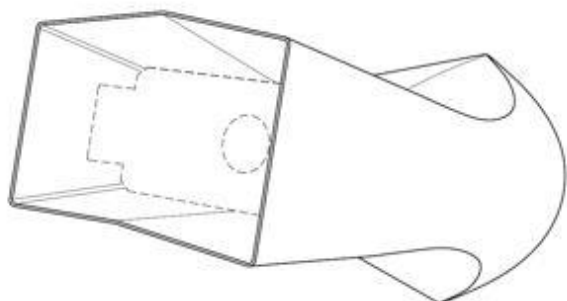
71: 1nhaler Ltd

33: GB 31: 6088983 32: 2020-03-25

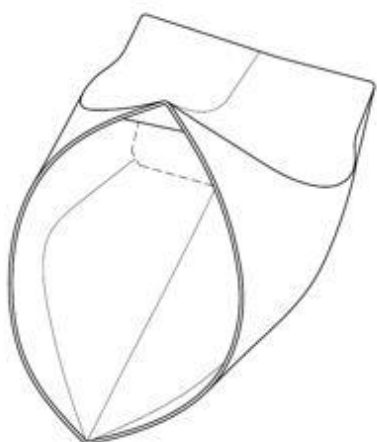
33: GB 31: 6093275 32: 2020-06-23

54: INHALER

57: The features of the design for which protection is claimed are those in the shape and/or configuration as shown in the accompanying illustrations.



FRONT ISOMETRIC VIEW OPEN



REAR ISOMETRIC VIEW OPEN

21: F2020/01307 22: 2020-09-29 23:

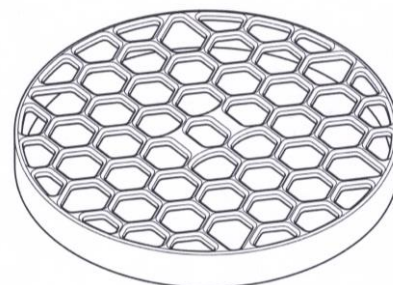
43: 2021-06-21

52: Class 11 24: Part F

71: HUXLI (PTY) LTD

54: FLOWER HOLDER

57: The novelty of the design resides in the shape or configuration of a flower holder substantially as shown in the accompanying drawings.



21: F2020/01309 22: 2020-09-29 23:

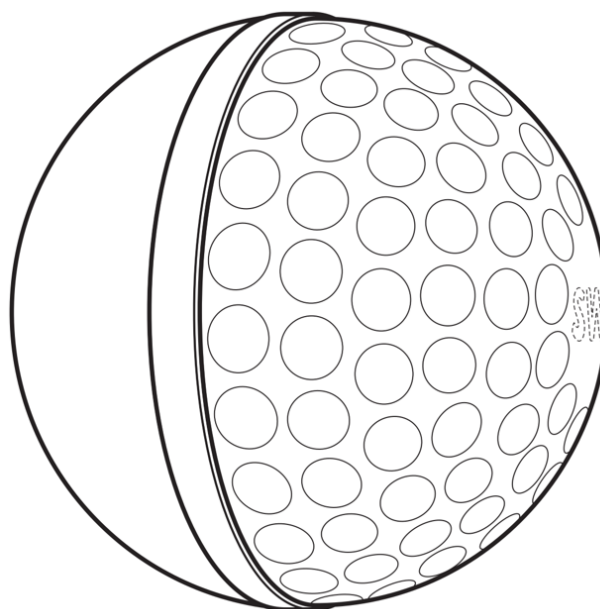
43: 2021-06-21

52: Class 21 24: Part F

71: SWINGA CRICKET PTY LTD

54: BALL

57: The design is applied to a ball. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the ball, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2020/01367 22: 2020-10-16 23:

43: 2021-05-25

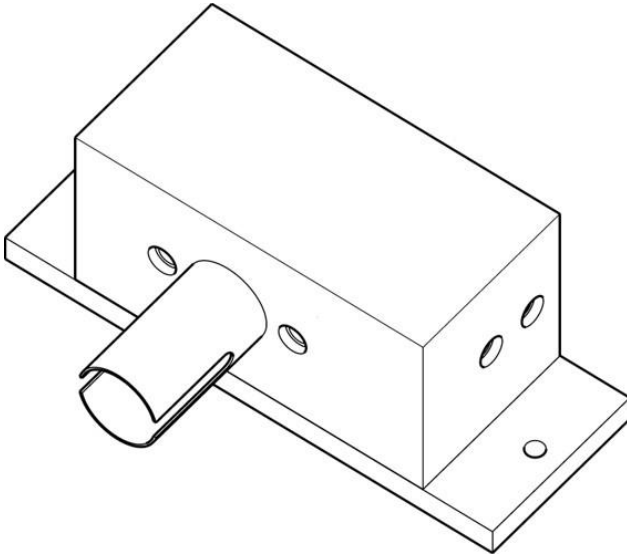
52: Class 23 24: Part F

71: VAN DER MERWE, Jacques

54: VALVE CONTROL INTERFACE

57: The design is applied to a valve control interface. The features of the design for which protection is claimed are those of the shape and/or configuration

and/or pattern of the valve control interface, substantially as illustrated in the accompanying representation. Neither the features of the slots (6) in the pilot valve cylinder (5) of the valve control interface, nor the features of apertures (4) of the valve control interface form part of the design and are disclaimed.



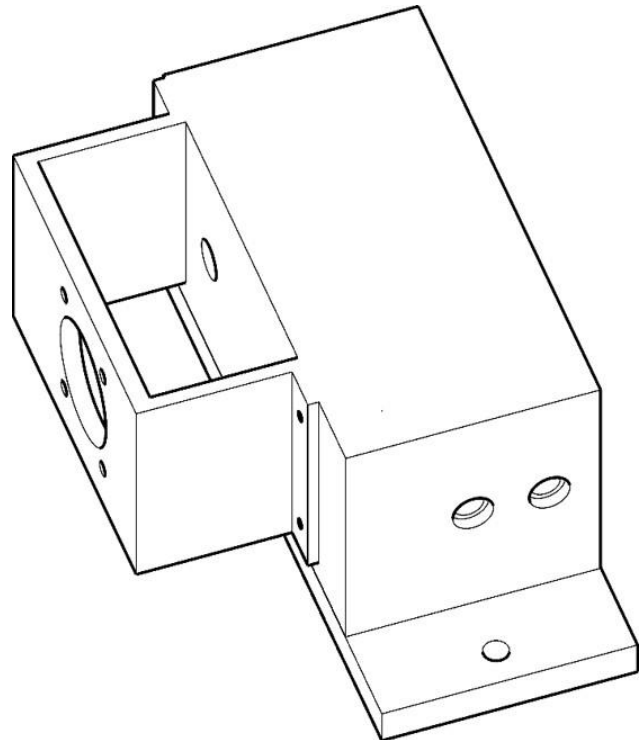
21: F2020/01368 22: 2020-10-16 23:
43: 2021-05-25

52: Class 23 24: Part F

71: VAN DER MERWE, Jacques

54: VALVE CONTROL INTERFACE

57: The design is applied to a valve control interface. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the valve control interface, substantially as illustrated in the accompanying representation. The features of apertures (4) of the valve control interface do not form part of the design and are disclaimed.



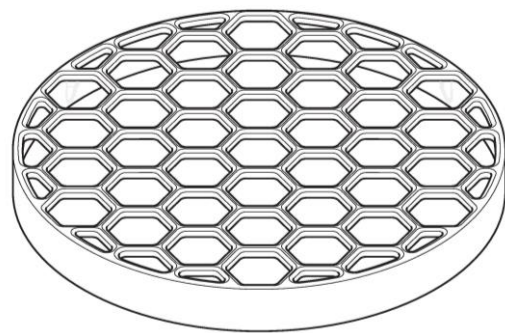
21: F2020/01408 22: 2020-10-30 23:
43: 2021-06-21

52: Class 11 24: Part F

71: HUXLI (PTY) LTD

54: FLOWER HOLDER

57: The novelty of the design resides in the shape or configuration of a flower holder substantially as shown in the accompanying drawings.



21: F2020/01411 22: 2020-10-30 23:
43: 2021-06-09

52: Class 06 24: Part F

71: RIXTON, Benita Paula Doria

54: A LAPTOP STAND

57: The design is applied to a laptop stand. The features of the design for which protection is claimed

are those of the shape and/or configuration and/or pattern of the laptop stand, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.

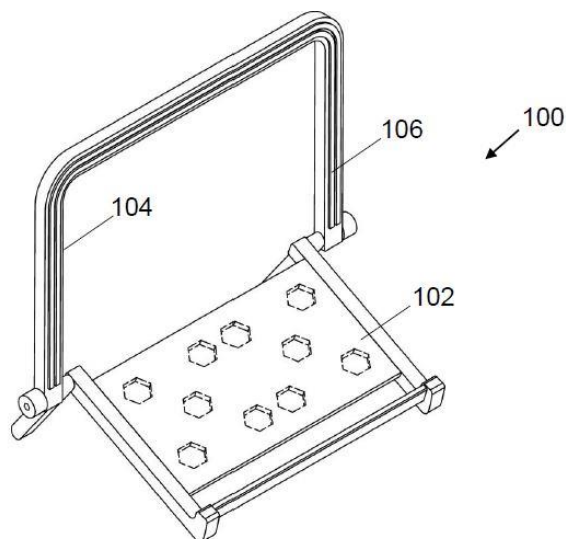
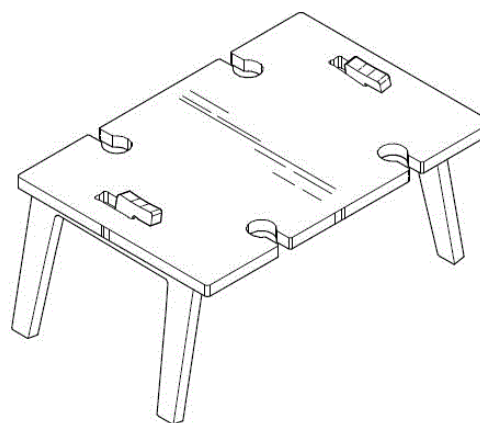


FIGURE 1: THREE-DIMENSIONAL VIEW

21: F2020/01418 22: 2020-11-03 23:
43: 2020-11-03
52: Class 6 24: Part F
71: THE PICNIC COLLECTION (PTY) LTD.

54: TABLES

57: The design relates to a collapsible, portable table, more specifically a picnic table. The table comprises a planar top and a pair of transversely extending U-shaped legs which engage the top by way of L-shaped hooks which protrude through opposing slots formed in the top. In addition, the top has four laterally disposed key-hole shaped cut-outs which are configured to serve as wine glass holders.



Three-dimensional view from top

21: F2020/01420 22: 2020-11-03 23:
43: 2021-07-15
52: Class 29 24: Part F
71: Tsholofetso Thebenare Legwale

54: FACE MASK

57: The design relates to a Face mask. The features of the design are those of shape and/or pattern and/or configuration.

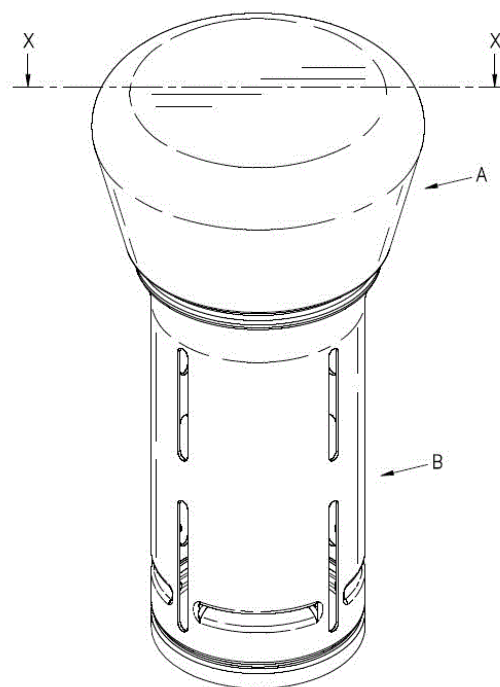
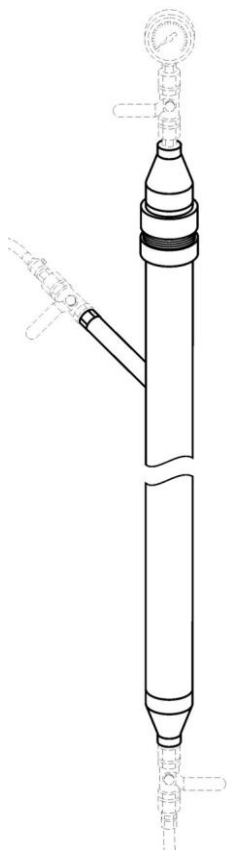


21: F2020/01422 22: 2020-11-04 23:
43: 2021-06-02
52: Class 08 24: Part F
71: PLUMVAC PROJECTS AND SERVICES (PTY) LTD

54: PIPE RELINING APPARATUS

57: The design is applied to a pipe relining apparatus. The features of the design for which protection is claimed are those of the shape and/or configuration of a pipe relining apparatus, substantially as illustrated in the accompanying representation. Features shown in broken lines do

not form part of the design and are disclaimed. Separations depicted by break lines indicate an indeterminate length and any portion between the break lines does not form part of the design and is disclaimed.



21: F2020/01434 22: 2020-11-06 23:
43: 2020-11-06

52: Class 9 24: Part F

71: CONTROL CHEMICALS (PTY) LTD

54: FLOATING CHEMICAL DISPENSING CONTAINERS

57: The design is for a floating chemical dispensing container comprising a float portion, for providing buoyancy in use, and an apertured chemical container portion, for containing soluble chemicals in use, wherein the chemical container portion has a substantially conical or frustoconical base member.

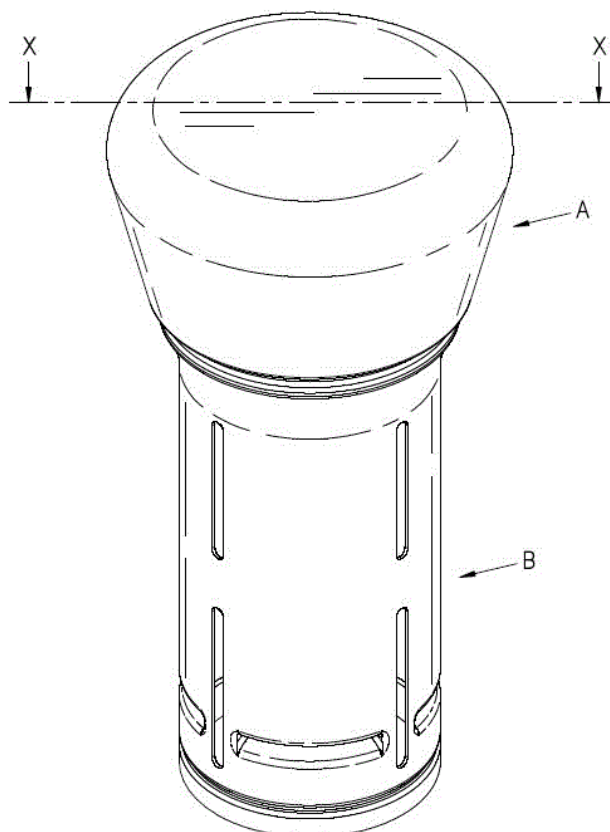
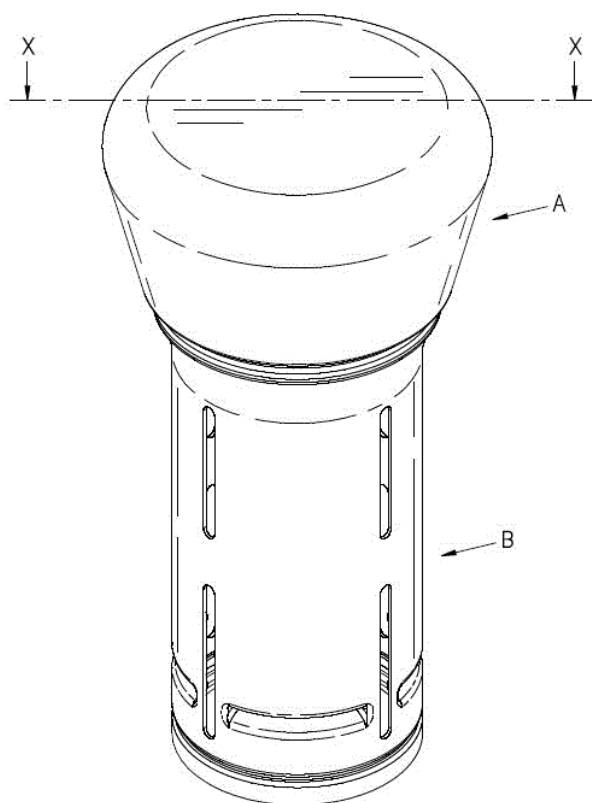
21: F2020/01435 22: 2020-11-06 23:
43: 2020-11-06

52: Class 9 24: Part F

71: CONTROL CHEMICALS (PTY) LTD

54: FLOATING CHEMICAL DISPENSING CONTAINERS

57: The design is for a floating chemical dispensing container comprising a float portion, for providing buoyancy in use, and an apertured chemical container portion, for containing soluble chemicals in use, wherein, inside the container portion, adjacent to a base member thereof, a continuous or interrupted peripherally extending ridge is provided.



21: F2020/01437 22: 2020-11-06 23:

43: 2020-11-06

52: Class 9 24: Part F

71: CONTROL CHEMICALS (PTY) LTD

54: FLOATING CHEMICAL DISPENSING CONTAINERS

57: The design is for a floating chemical dispensing container comprising a float portion, for providing buoyancy in use, and an apertured chemical container portion, for containing soluble chemicals in use, wherein the container portion contains two grouped pluralities of chemical tablets, each grouped by a sleeve, located one-above-the-other and separated by a spacing member.

21: F2020/01438 22: 2020-11-06 23:

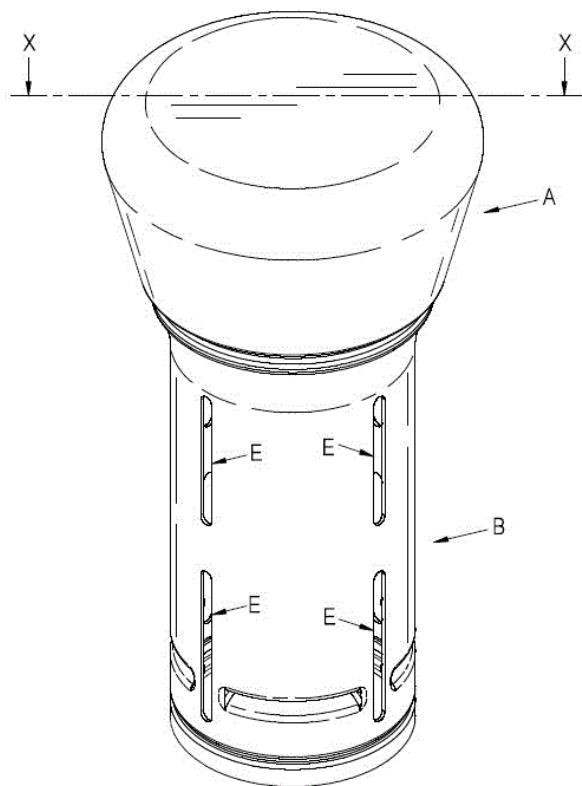
43: 2020-11-06

52: Class 9 24: Part F

71: CONTROL CHEMICALS (PTY) LTD

54: FLOATING CHEMICAL DISPENSING CONTAINERS

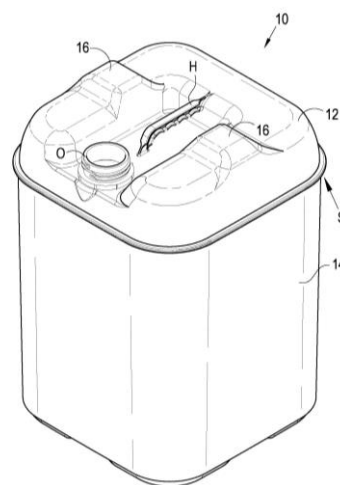
57: The design is for a floating chemical dispensing container comprising a float portion, for providing buoyancy in use, and an apertured chemical container portion, for containing soluble chemicals in use, wherein the chemical container portion has a substantially conical or frustoconical base member, and/or inside the container portion, adjacent to the base member, a continuous or interrupted peripherally extending ridge is provided, and/or respective sets of circumferentially spaced slots are defined in sidewalls of the container portion at longitudinally spaced locations.



21: F2020/01440 22: 2020-11-06 23:
43: 2020-11-06
52: Class 9 24: Part F
71: Pailpac (Pty) Ltd

54: Containers

57: This design is for a container, particularly a stackable narrow mouth container constructed from a synthetic/plastic material colloquially referred to as a jerrican. The container comprises a shell-like top portion having a handle and a mouth opening attached to a shell-like bottom portion at a seal located in a top one third of the height of the container. The container has a generally cuboidal shape with rounded corners and edges. The handle and mouth opening are centrally located and are flanked by stacking formations which engage with complementary stacking formations provided on adjacent containers of the same type. It follows that a base of the bottom portions comprises the complementary stacking formations.



21: F2020/01454 22: 2020-11-10 23:
43: 2021-07-15
52: Class 24 24: Part F
71: Medtrade Products Limited
33: GB 31: 6089470 32: 2020-05-11

54: WOUND DRESSING

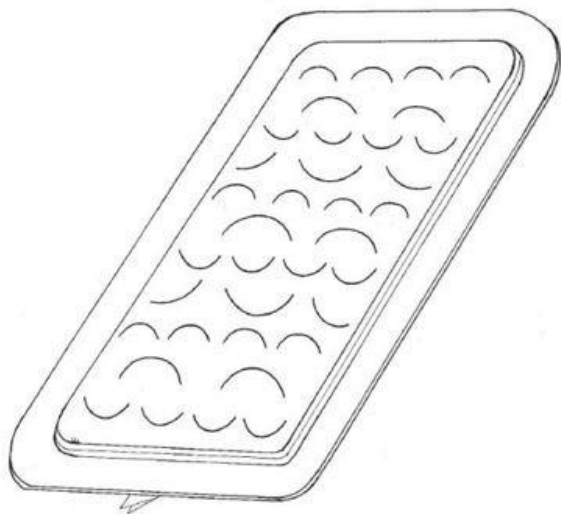
57: The features of the design for which protection is claimed are those in the shape and/or configuration as shown in the accompanying illustrations.



21: F2020/01455 22: 2020-11-10 23:
43: 2021-07-15
52: Class 24 24: Part F
71: Medtrade Products Limited
33: GB 31: 6089471 32: 2020-05-11

54: WOUND DRESSING

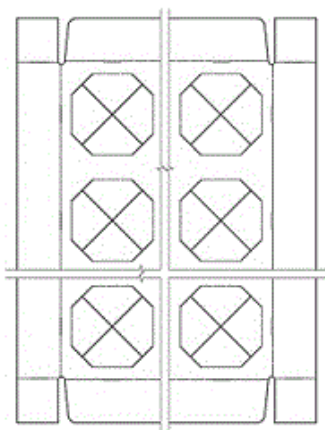
57: The features of the design for which protection is claimed are those in the shape and/or configuration as shown in the accompanying illustrations.



21: F2020/01465 22: 2020-11-11 23:
43: 2021-06-29
52: Class 9. 24: Part F
71: MPACT LIMITED

54: Blank for a Yoghurt Tray

57: The design is applied to a blank for a yoghurt tray. The features of the design are those of shape and/or configuration.



PLAN VIEW OF BLANK

21: F2020/01518 22: 2020-11-24 23:
43: 2021-06-08
52: Class 8. 24: Part F
71: KRUGER, SAREL JACOBUS VON WIELLIGH

54: A lock

57: The design relates to a lock. The features of the design are those of shape and/or configuration.

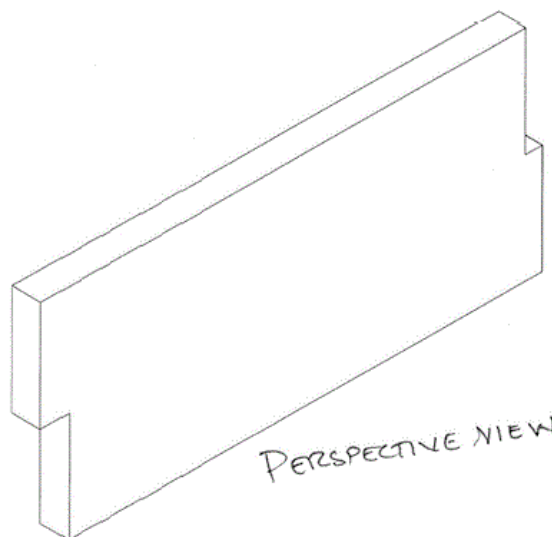


**CROSS-SECTIONAL
VIEW IN USE ON A-A**

21: F2020/01531 22: 2020-11-25 23:
43: 2021-06-08
52: Class 25 24: Part F
71: David Lieberman

54: WALL PANEL ELEMENT

57: The design relates to a Wall Panel Element. The features of the design are those of shape and/or pattern and/or configuration.

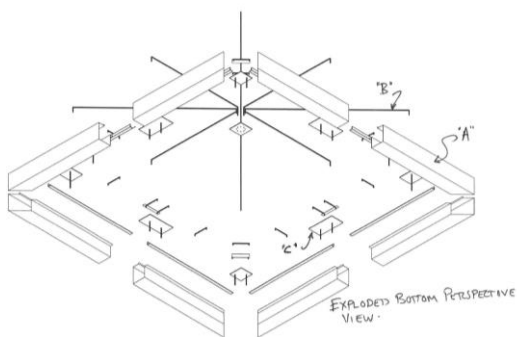


PERSPECTIVE VIEW

21: F2020/01563 22: 2020-11-30 23:
43: 2021-06-24
52: Class 25 24: Part F
71: David Lieberman

54: FOUNDATION MOULD

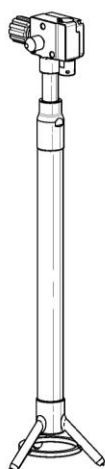
57: The design relates to a Foundation Mould. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01568 22: 2020-11-30 23:
43: 2021-06-24
52: Class 08 24: Part F
71: SULZER (SOUTH AFRICA) HOLDINGS (PTY)
LTD

54: THRUST LEG

57: The design relates to a THRUST LEG. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of the THRUST LEG substantially as illustrated in the accompanying representations.



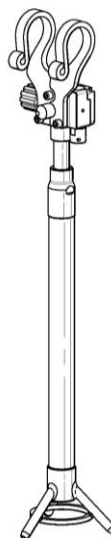
FIRST PERSPECTIVE VIEW

21: F2020/01570 22: 2020-11-30 23:
43: 2021-06-24
52: Class 08 24: Part F
71: SULZER (SOUTH AFRICA) HOLDINGS (PTY)
LTD

54: THRUST LEG

57: The design relates to a THRUST LEG. The features of the design for which protection is claimed include the pattern and/or shape and/or

configuration of the THRUST LEG substantially as illustrated in the accompanying representations.

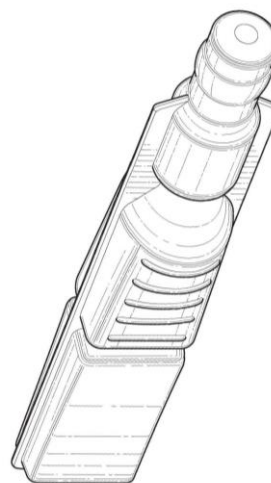


FIRST PERSPECTIVE VIEW

21: F2020/01572 22: 2020-12-01 23:
43: 2021-07-21
52: Class 09 24: Part F
71: Koska Family Limited
33: US 31: 29/736,603 32: 2020-06-01

54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



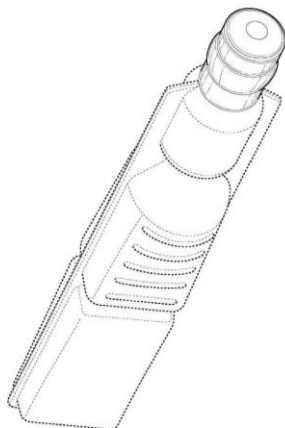
21: F2020/01574 22: 2020-12-01 23:
43: 2021-07-21
52: Class 09 24: Part F

71: Koska Family Limited

33: US 31: 29/736,603 32: 2020-06-01

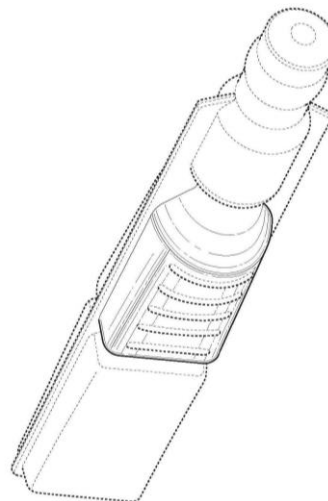
54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2020/01576 22: 2020-12-01 23:
43: 2021-07-21

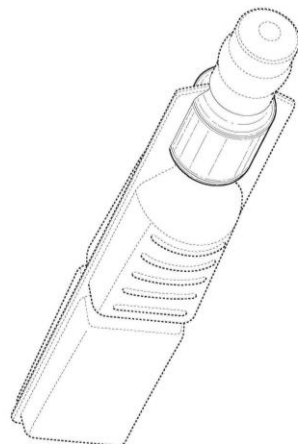
52: Class 09 24: Part F

71: Koska Family Limited

33: US 31: 29/736,603 32: 2020-06-01

54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2020/01580 22: 2020-12-01 23:
43: 2021-07-21

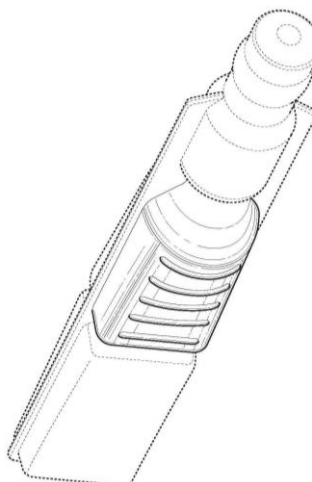
52: Class 09 24: Part F

71: Koska Family Limited

33: US 31: 29/736,603 32: 2020-06-01

54: SEALED FLUID CONTAINER

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2020/01578 22: 2020-12-01 23:
43: 2021-07-21

52: Class 09 24: Part F

71: Koska Family Limited

33: US 31: 29/736,603 32: 2020-06-01

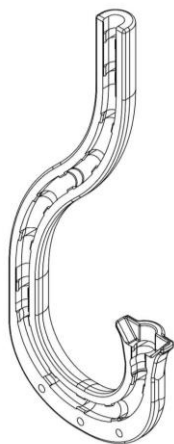
21: F2020/01584 22: 2020-11-25 23:
43: 2021-07-01

52: Class 23 24: Part F

71: Agriplas (Pty) Ltd

54: J-CLIP

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement .This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

No records available

DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS**Advertisement List for August 2021****Number of Advertised Patents: 773**

Application Number	Patent Title	Filing Date
2010/08492	IMPROVEMENTS RELATING TO CENTRIFUGAL PUMP IMPELLERS	2010/11/25
2013/01598	BENZOXABOROLE DERIVATIVES FOR TREATING BACTERIAL INFECTIONS	2013/03/01
2013/01972	DETERMINING THE QUANTITY OF A TAGGANT IN A LIQUID SAMPLE	2011/09/27
2013/09463	IMPROVEMENTS TO PUMPS AND COMPONENTS THEREFOR	2013/12/13
2014/00087	FLUORINATION OF ACRYLATE ESTERS AND DERIVATIVES	2014/01/06
2014/00792	NOVEL PIPERIDONO-DIHYDROTHIENOPYRIMIDINE SULFOXIDES AND THEIR USE FOR TREATING COPD AND ASTHMA	2012/08/17
2014/03368	BILE ACID RECYCLING INHIBITORS FOR TREATMENT OF PEDIATRIC CHOLESTATIC LIVER DISEASES	2012/10/26
2014/07302	HUMAN ANTIBODIES TO FEL D1 AND METHODS OF USE THEREOF	2013/05/02
2015/00681	TAPPING ASSEMBLY AND CONNECTING DEVICE; CONTAINER AND METHOD FOR BEVERAGE	2015/01/29

Application Number	Patent Title	Filing Date
	DISPENSING	
2015/01203	C17-HETEROARYL DERIVATIVES OF OLEANOLIC ACID AND METHODS OF USE THEREOF	2013/09/10
2015/01228	METHOD AND SYSTEM FOR SELECTIVELY BIASED LINEAR DISCRIMINANT ANALYSIS IN AUTOMATIC SPEECH RECOGNITION SYSTEMS	2015/02/23
2015/02793	LOW VOLATILITY HERBICIDAL COMPOSITIONS	2013/11/05
2015/03635	LYOPHILIZED PREPARATIONS OF MELPHALAN FLUFENAMIDE	2013/10/24
2015/06086	METHODS OF FABRICATING POLYCRYSTALLINE DIAMOND BY FUNCTIONALIZING DIAMOND NANOPARTICLES, GREEN BODIES INCLUDING FUNCTIONALIZED DIAMOND NANOPARTICLES, AND METHODS OF FORMING POLYCRYSTALLINE DIAMOND CUTTING ELEMENTS	2015/08/21
2015/08400	METHOD FOR ARSENIC OXIDATION AND REMOVAL FROM PROCESS AND WASTE SOLUTIONS	2015/11/13
2016/00117	APPARATUS FOR ENDOTHERMIC REACTIONS	2014/06/13
2016/00246	ANTI-CXCR4 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES	2014/07/28
2016/00441	ACTIVATOR FOR AN AUTOINJECTOR	2014/06/05
2016/00550	COMPOSITIONS, METHODS AND USES FOR INDUCING VIRAL GROWTH	2016/01/26
2016/01126	MODERN REFERMENT METHOD FOR MANUFACTURING DOUGH MIXTURE	2016/02/18
2016/01337	POLY(ETHYLENEFURANOATE) COPOLYMERS AND METHODS	2016/02/26
2016/02366	COMPOSITIONS AND METHODS FOR ANTIBODIES TARGETING EPO	2016/04/07
2016/03278	TETRAHYDROQUINOLINE COMPOSITIONS AS BET BROMODOMAIN INHIBITORS	2014/11/18
2016/06994	COMMUNICATION SYSTEM AND METHOD FOR A TRAIN	2015/02/06
2016/07141	FLEXIBLE ELECTRICAL ISOLATION DEVICE	2016/10/17
2016/08157	ARRANGEMENT AND PROCESS FOR RECYCLING CARBON AND HYDROCARBON FROM ORGANIC MATERIAL THROUGH PYROLYSIS	2016/11/24

Application Number	Patent Title	Filing Date
2017/00629	SUBSTITUTED PHENYL ALKANOIC ACID COMPOUNDS AS GPR120 AGONISTS AND USES THEREOF	2015/07/23
2017/00883	TETRAHYDROQUINOLINE DERIVATIVES AS BROMODOMAIN INHIBITORS	2017/02/03
2017/00940	TOP SERVICE CLAMPING CYLINDERS FOR A GYRATORY CRUSHER	2015/07/27
2017/01039	AN IMPROVED EXPRESSION CASSETTE FOR PACKAGING AND EXPRESSION OF VARIANT FACTOR VIII FOR THE TREATMENT OF HEMOSTASIS DISORDERS	2017/02/10
2017/01070	PUMP LINER	2017/02/13
2017/01306	CONTROLLING EXECUTION OF THREADS IN A MULTI-THREADED PROCESSOR	2015/10/21
2017/01393	CUSTOMIZABLE MACHINE LEARNING MODELS	2015/08/25
2017/01430	HAMMERLESS PIN ASSEMBLY	2017/02/24
2017/01648	CUTTING APPARATUS	2017/03/07
2017/02638	RADIOPHARMACEUTICAL CONJUGATE OF A METABOLITE AND AN EPR AGENT, FOR TARGETING TUMOUR CELLS	2015/09/25
2017/03129	MUTATED PROTOPORPHYRINOGEN IX OXIDASE (PPX) GENES	2011/08/02
2017/03161	COMPLEXES OF 1-METHYLCYCLOPROPENE WITH METAL COORDINATION POLYMER NETWORKS	2015/11/09
2017/03181	PLACENTAL STEM CELL POPULATIONS	2017/05/08
2017/03207	METHODS OF TREATING MULTIPLE SCLEROSIS	2015/11/16
2017/03412	MICROFLUIDIC MEASUREMENTS OF THE RESPONSE OF AN ORGANISM TO A DRUG	2015/11/05
2017/03585	COMBINATION IMMUNOTHERAPY APPROACH FOR TREATMENT OF CANCER	2015/10/23
2017/03616	METHOD AND DEVICE FOR EXECUTING AN EVAPING DEVICE OPERATING SYSTEM, PROGRAMMING LANGUAGE, AND APPLICATION PROGRAMMING INTERFACE	2015/11/25
2017/04059	BCMA CHIMERIC ANTIGEN RECEPTORS	2017/06/13
2017/04173	ACC INHIBITORS AND USES	2012/11/09

Application Number	Patent Title	Filing Date
	THEREOF	
2017/05228	RELEASE DEVICE FOR ACTUATING A TRIGGER LEVER OF A WEAPON	2016/03/04
2017/05356	ELECTRIC MOTOR COMPRISING A STRONG ACOUSTIC ATTENUATION DEVICE	2017/08/08
2017/05357	ELECTRIC MOTOR COMPRISING AN ACOUSTIC ATTENUATION DEVICE	2017/08/08
2017/06028	HYDROELECTRIC/HYDROKINETIC TURBINE AND METHODS FOR MAKING AND USING SAME	2016/02/12
2017/06241	ANTI-CXCR4 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES	2017/09/13
2017/06579	E-VAPOR DEVICES INCLUDING PRE-SEALED CARTRIDGES	2016/04/18
2017/07212	BILE ACID DERIVATIVES AS FXR/TGR5 AGONISTS AND METHODS OF USE THEREOF	2016/03/30
2017/07852	COMPOUNDS FOR USE IN TREATING NEUROMUSCULAR DISORDERS	2016/06/15
2017/08384	HIGH VOLUME WATER ELECTROLYZING SYSTEM AND METHOD OF USING	2017/12/11
2017/08543	PINCH VALVE	2017/12/15
2017/08549	WASTE SEPARATION METHOD	2016/06/17
2017/08700	STEAM GENERATOR	2017/12/20
2018/00399	SECUREMENT OF A WEAR MEMBER TO AN EXCAVATION IMPLEMENT	2018/01/19
2018/00689	5-(N-BENZYL TETRAHYDROISOQUINOLIN-6-YL) PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION	2018/02/01
2018/00783	TORCH CUTTING MACHINE	2018/02/06
2018/00826	SUBSTITUTED OXOPYRIDINE DERIVATIVES	2018/02/08
2018/01006	OPTICAL LIGHT-TRANSMISSION ELEMENT FOR A SOLAR ENERGY ASSEMBLY COMPRISING A HARVESTING PORTION AND AN ALIGNMENT CONTROL PORTION, AND METHOD FOR ALIGNMENT OF SUCH	2018/02/14
2018/01038	ORAL CARE COMPOSITIONS	2018/02/15
2018/01163	ABRASIVE TOOL AND METHOD FOR PRODUCING AN ABRASIVE TOOL OF THIS KIND	2018/02/20
2018/01338	ENHANCED IMMUNE RESPONSE IN PORCINE SPECIES	2018/02/27

Application Number	Patent Title	Filing Date
2018/01734	INFLATABLE PLUG FOR A BOREHOLE	2018/03/14
2018/02126	A NEURAL CELL LINE DIFFERENTIATED FROM HIPSCS BY DIRECTED INDUCTION, A METHOD FOR INDUCTION AND THE APPLICATION THEREOF	2017/08/10
2018/02868	FILTER DEVICES METHODS AND SYSTEM	2016/10/09
2018/02889	HOME AND INDUSTRIAL AUTOMATION SYSTEM	2018/05/03
2018/03011	HAIR CARE COMPOSITION	2016/11/28
2018/03115	HIGH-STRENGTH 6XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME	2016/12/16
2018/03367	POLYCYCLIC TLR7/8 ANTAGONISTS AND USE THEREOF IN THE TREATMENT OF IMMUNE DISORDERS	2016/12/16
2018/03455	METHOD OF MANUFACTURING A CEMENTED CARBIDE MATERIAL	2016/12/19
2018/03530	COMPOUNDS AND COMPOSITIONS USEFUL FOR TREATING DISORDERS RELATED TO NTRK	2016/11/18
2018/04770	NEW AMMONIUM DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	2018/07/17
2018/05369	MICE EXPRESSING A LIMITED IMMUNOGLOBULIN LIGHT CHAIN REPERTOIRE	2018/08/13
2018/05986	ULTRASONIC DEVICE AND DEVICE FOR GENERATING MECHANICAL VIBRATION	2018/09/06
2018/06378	AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER	2018/09/25
2018/06962	BCMA BINDING MOLECULES AND METHODS OF USE THEREOF	2017/03/31
2018/07347	FACEPLATE MADE OF COMPOSITE MATERIAL	2018/11/02
2018/07490	SYSTEMS, APPARATUSES, AND METHODS FOR SECURING SCREEN ASSEMBLIES	2018/11/07
2018/08045	INSECT REPELLENTS	2018/11/28
2018/08160	BISPECIFIC BINDING PROTEINS AND USES THEREOF	2018/12/03
2018/08162	BENZODIAZEPINE DERIVATIVE WITH ACTIVITY ON THE CENTRAL	2018/12/03

Application Number	Patent Title	Filing Date
	NERVOUS AND VASCULAR SYSTEMS	
2018/08212	COMPOSITE POLYMER FIBRES	2018/12/05
2018/08579	SYSTEMS AND METHODS FOR WATER EXTRACTION CONTROL	2018/12/19
2018/08582	ANTIBODIES TO ALPHA-SYNUCLEIN AND USES THEREOF	2018/12/19
2018/08637	SYSTEM FOR DIVIDING A PRESSURIZED VOLUME OF A CONTAINMENT BUILDING OF A NUCLEAR POWER PLANT	2018/12/20
2019/00661	PRODUCTION METHOD FOR INSOLUBLE RECOMBINANT PROTEIN AGGREGATE	2019/01/31
2019/00737	XYLANASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME	2019/02/05
2019/00743	METALLURGICAL AND CHEMICAL PROCESSES FOR RECOVERING VANADIUM AND IRON VALUES FROM VANADIFEROUS TITANOMAGNETITE AND VANADIFEROUS FEEDSTOCKS	2019/02/05
2019/00794	REDUCED SUGAR WAFER	2019/02/07
2019/00886	A Support Installation	2019/02/12
2019/00890	SUSTAINED-RELEASE BUPRENORPHINE FORMULATIONS	2017/09/12
2019/00917	SPORTS OFFICIATING SIMULATOR (Rugby Refereeing Simulator)	2019/02/13
2019/00922	A PROCESS FOR PURIFYING PROPYLENE OXIDE	2017/07/19
2019/00963	SYSTEMS AND METHODS FOR TARGETED DEEP HYPERTHERMIA BY TIME-SHARED RF INDUCTIVE APPLICATORS	2017/07/18
2019/00976	BINUCLEAR PALLADACYCLES AND THEIR USE IN THE TREATMENT OF CANCER	2019/02/15
2019/01099	COMPOSITIONS FOR THE TREATMENT OF PULMONARY FIBROSIS	2017/07/28
2019/01215	PALLET CONTAINER	2017/09/12
2019/01240	A POWER GENERATING DEVICE ATTACHABLE TO A VEHICLE	2019/02/27
2019/01256	PIPERIDINE CXCR7 RECEPTOR MODULATORS	2019/02/27
2019/01259	CIRCUIT BREAKER	2019/02/27
2019/01279	COMPOSITIONS AND METHODS FOR TREATMENT OF NEUROLOGICAL DISORDERS	2015/08/27
2019/01339	METHOD AND SYSTEM FOR RECONSTRUCTING 3-	2017/07/19

Application Number	Patent Title	Filing Date
	DIMENSIONAL IMAGES FROM SPATIALLY AND TEMPORALLY OVERLAPPING X-RAYS	
2019/01421	ACTIVE MATERIAL AND ELECTRIC POWER GENERATOR CONTAINING IT	2017/08/07
2019/01447	A Drill Bit	2019/03/08
2019/01521	A door locking arrangement	2019/03/12
2019/01695	CRYSTALLINE POLYMORPHS OF A MUSCARINIC ACETYLCHOLINE RECEPTOR AGONIST	2017/10/05
2019/01773	PDE4 INHIBITOR	2017/08/22
2019/01793	CONCRETE BLOCK CONSTRUCTION METHOD AND GUIDE MEMBER FOR INSTALLING CONCRETE BLOCK	2017/07/25
2019/02093	VARIANT TYPE III INTERFERONS AND SYNTHETIKINES	2017/09/29
2019/02539	SHAFT ENLARGEMENT ARRANGEMENT FOR A BORING SYSTEM	2019/04/23
2019/02540	METHOD AND APPARATUS FOR ATTITUDE STABILIZATION OF LASER SCANNING FOR HELICOPTER-BORNE LIDAR	2018/12/31
2019/02744	COMBINATIONS OF FGFR4 INHIBITORS AND BILE ACID SEQUESTRANTS	2017/11/01
2019/02821	COPOLYMERS SUITABLE FOR PLASTIZING INORGANIC BINDER SYSTEMS	2017/09/29
2019/02833	FACE LIVENESS DETECTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE	2019/05/06
2019/02980	HEAD PROTECTION HOOD WITH INTEGRATED FRAME	2017/10/24
2019/03190	INJECTION DEVICE, IN PARTICULAR AUTOINJECTOR, FOR THE SIMULTANEOUS ADMINISTRATION OF SEVERAL MEDICATIONS	2017/10/27
2019/03222	COMPOSITIONS AND METHODS FOR THE TREATMENT OF GASTROINTESTINAL POLYPS	2017/04/19
2019/03304	RESOURCE ALLOCATION METHOD AND DEVICE, AND ELECTRONIC PAYMENT METHOD	2017/12/04
2019/03501	IMPROVING THE SUCCESS RATE OF AN ONLINE TRANSACTION	2019/05/31
2019/03580	AMINO ACID COMPOSITIONS AND METHODS FOR THE TREATMENT OF LIVER DISEASES	2017/12/19

Application Number	Patent Title	Filing Date
2019/03599	A MODULAR FLATBED DECK, A MODULAR DROP-SIDE AND CANOPY ARRANGEMENT FOR THE FLATBED DECK	2019/06/05
2019/03673	BLOCKCHAIN ASSET ISSUING AND REDEMPTION METHODS AND APPARATUSES, AND ELECTRONIC DEVICE THEREFORE	2019/06/07
2019/03767	SYNTHETIC IMMUNE RECEPTORS AND METHODS OF USE THEREOF	2017/12/02
2019/03795	TREATMENT OF WATER	2019/06/12
2019/03915	Recuperator	2019/06/18
2019/04074	A VACUUM DUST EXTRACTOR	2019/06/24
2019/04099	PAPER DISPENSER	2018/01/18
2019/04331	FLUID TREATMENT SYSTEMS AND METHODS OF USING THE SAME	2017/12/01
2019/04410	METHOD AND PLANT FOR PRODUCING AN OLEFIN	2017/12/22
2019/04503	TRACTION POWER MODULE	2019/07/09
2019/04602	RESONANT RETUNABLE ANTENNA	2019/07/15
2019/04716	BELT CONVEYOR MAINTENANCE PROCESS AND DEVICE, CORRESPONDING ASSEMBLY	2019/07/18
2019/05191	CEW WEAPON SYSTEM AND RELATED METHODS	2018/01/13
2019/05262	AN AGENT FOR PROMOTING ANGIOGENESIS AND METHODS AND USES THEREOF	2018/01/11
2019/05343	ANTISEPTIC COMPOSITION COMPRISING POLYVINYLPYRROLIDONE AND UNITHIOL AND USE OF THE COMPOSITION	2017/12/14
2019/05405	SULFOXIMINE GLYCOSIDASE INHIBITORS	2019/08/15
2019/05716	AN ALIGNMENT SYSTEM	2019/08/29
2019/05950	Device for Holding Nails	2019/09/10
2019/06026	SEWING MACHINE PRESSER FOOT FOR SEWING WAVY LINE TRACK	2019/09/12
2019/06101	ROBOTIC LIMB ARRANGEMENT AND ASSOCIATED ROBOT	2019/09/16
2019/06230	METHOD AND SYSTEMS FOR AN AUXILIARY POWER UNIT FOR A LOCOMOTIVE	2019/09/20
2019/06464	CRYSTALLINE FORMS OF (S)-AFOXOLANER	2018/04/05
2019/06485	TREATMENT OF INFLAMMATORY DISEASES WITH INHIBITORS OF C5A ACTIVITY	2019/10/02
2019/06488	NEW CATALYTIC SYSTEM FOR SCALABLE PREPARATION OF INDOXACARB	2018/03/27

Application Number	Patent Title	Filing Date
2019/06543	WIRELESS CHARGING DEVICE, DEVICE-TO-BE-CHARGED AND METHOD FOR CONTROLLING THE SAME	2018/04/04
2019/06558	WIRELESS CHARGING SYSTEM, DEVICE, AND METHOD, AND DEVICE TO-BE-CHARGED	2018/04/04
2019/06760	SEAT ARRANGEMENT FOR A WHEELCHAIR AND A WHEELCHAIR INCLUDING SUCH A SEAT ARRANGEMENT	2019/10/14
2019/06853	SOLAR CONTROL COATING FOR LAMINATED GLAZING	2019/10/17
2019/07000	SPREADER FOR PARTICULATE MATERIAL	2018/03/21
2019/07017	COMBINATION THERAPY FOR USE IN TREATING RETROVIRAL INFECTION	2018/04/18
2019/07103	TELESCOPING JACK FOR LIFTING LARGE CAPACITY TRUCKS	2019/10/28
2019/07130	MOBILE FERTILIZER DEVICE FOR STORING AND SUPPLYING MULTIPLE FERTILIZERS TO A GREENHOUSE	2018/07/18
2019/07156	RADIATION-CURABLE RESIN COMPOSITION AND PRODUCTION METHOD THEREOF	2018/04/02
2019/07157	PLASTOMER SPRING WITH CAPTIVE VALVE	2017/03/29
2019/07184	GREASE GUN PRESSURE RETURN VALVE	2019/10/31
2019/07213	MODULAR ONLINE ELEMENTAL ANALYSER AND RELATED METHOD OF ASSEMBLY	2019/10/30
2019/07259	METHOD OF TREATING OR AMELIORATING METABOLIC DISORDERS USING BINDING PROTEINS FOR GASTRIC INHIBITORY PEPTIDE RECEPTOR (GIPR) IN COMBINATION WITH GLP-1 AGONISTS	2019/10/31
2019/07279	METHODS OF PEST CONTROL	2018/01/12
2019/07321	METAL GRID ELECTRODE FABRICATION METHOD BASED ON INK-JET PRINTING TECHNOLOGY	2019/11/05
2019/07588	POTENT HIV INHIBITING LIPOPEPTIDE, DERIVATIVE THEREOF, PHARMACEUTICAL COMPOSITION THEREOF AND USE THEREOF	2019/11/15
2019/07646	PRESSED BOARD PRODUCTS	2019/11/19
2019/07689	SYSTEM AND METHOD FOR	2019/11/20

Application Number	Patent Title	Filing Date
	REPAIRING A COKE OVEN	
2019/07757	CAN BASE FORMING	2018/02/16
2019/07758	EASY OPEN CLOSURE	2018/02/12
2019/07976	AGENT FOR REDUCING AMOUNT OF AMYLOID β PROTEIN	2019/11/29
2019/08090	PHARMACEUTICAL COMPOSITION AND METHOD FOR PREPARING SAME	2018/07/03
2019/08091	INDOLE-FORMAMIDE DERIVATIVE, PREPARATION METHOD THEREFOR AND USE THEREOF IN MEDICINE	2018/07/05
2019/08402	NANOLIGNOCELLULOSE COMPOSITIONS AND PROCESSES TO PRODUCE THESE COMPOSITIONS	2019/12/17
2019/08461	EQUIPMENT SECURITY	2019/12/19
2019/08505	IMPROVEMENTS IN THE STABILITY OF WORK MACHINES	2018/06/06
2019/08520	A Medical Device	2019/12/20
2019/08533	SMOKELESS CIGARETTE HAVING DECREASED VAPOR TEMPERATURE AND PREVENTING HEAT-CAUSED COLLAPSE OF CIGARETTE HOLDER	2018/05/25
2019/08549	CHECKPOINT INHIBITOR BISPECIFIC ANTIBODIES	2019/12/20
2019/08595	COMPRESSED TABLETS	2019/12/23
2020/00024	METHOD AND DEVICE FOR TRANSMITTING DATA	2017/06/14
2020/00026	BASE GRAPH SELECTION FOR 3GPP NEW RADIO	2018/08/22
2020/00029	DISCONTINUOUS RECEPTION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	2017/06/02
2020/00030	NON-PULSATILE PROLONGED-RELEASE BETAHISTINE ORAL SOLID COMPOSITIONS	2018/07/16
2020/00033	FLYING INSECT TRAP	2018/07/06
2020/00034	REDUCTION OF THE CONTENT OF GLYCIDYL ESTERS IN EDIBLE OILS	2018/06/12
2020/00035	EFFICIENT SRS RESOURCE INDICATION METHODS	2018/10/02
2020/00039	WIRELESS COMMUNICATION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE	2018/10/08
2020/00040	DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	2017/06/16
2020/00041	CONTROL METHOD, NODE, AND COMPUTER STORAGE MEDIUM	2017/08/11
2020/00042	WIRELESS COMMUNICATION	2017/06/09

Application Number	Patent Title	Filing Date
	METHOD AND DEVICE	
2020/00043	WIRELESS COMMUNICATION METHOD AND APPARATUS	2017/06/07
2020/00044	DATA TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	2017/06/08
2020/00047	A DUAL-ACTING PRESSURE BOOSTING LIQUID PARTITION DEVICE, SYSTEM, FLEET AND USE	2018/06/27
2020/00048	METHOD, SYSTEM AND USE, OF CONTROLLING WORKING RANGE OF A PUMP BELLOW	2018/06/27
2020/00066	HETEROCYCLIC COMPOUNDS USEFUL AS ANTI-BACTERIAL AGENTS AND METHOD FOR PRODUCTION THEREOF	2018/06/08
2020/00067	HAIR TREATMENT SYSTEM	2018/06/22
2020/00068	LAUNDRY CLEANING COMPOSITION	2018/07/04
2020/00069	METHOD AND APPARATUS FOR HANDLING MOBILITY MEASUREMENTS FOR A USER EQUIPMENT	2018/08/09
2020/00088	TRANSMISSION OF BSS LOAD ELEMENT IN WIRELESS LOCAL AREA NETWORK SYSTEM	2020/01/07
2020/00091	WIRELESS COMMUNICATION METHOD AND DEVICE	2017/06/16
2020/00093	FRACABILITY EVALUATION METHOD FOR COAL RESERVOIR	2019/05/22
2020/00114	TRANSITION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE	2017/08/02
2020/00116	SIGNAL PROCESSING METHOD AND APPARATUS	2017/09/14
2020/00117	RADIO COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	2018/02/13
2020/00119	DATA TRANSMISSION METHOD AND NETWORK DEVICE	2017/09/05
2020/00120	WIRELESS COMMUNICATION METHOD AND DEVICE	2017/06/15
2020/00121	UPLINK TRANSMISSION METHOD, AND TERMINAL DEVICE	2017/08/02
2020/00122	COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	2017/08/25
2020/00123	SIGNAL TRANSMISSION METHOD AND TERMINAL DEVICE	2017/08/16
2020/00124	TERMINAL INFORMATION TRANSFER METHOD AND RELEVANT PRODUCTS	2018/05/17
2020/00125	WIRELESS COMMUNICATION	2017/07/27

Application Number	Patent Title	Filing Date
	METHOD, TERMINAL DEVICE AND NETWORK DEVICE	
2020/00126	DATA TRANSMISSION METHOD AND RELATED PRODUCT	2017/07/28
2020/00156	METHOD FOR TRANSMITTING SIGNAL, NETWORK DEVICE AND TERMINAL DEVICE	2017/06/15
2020/00157	ANTIPROLIFERATIVE COMPOUNDS AND METHODS OF USE THEREOF	2018/07/09
2020/00175	WIRELESS COMMUNICATION METHOD AND NETWORK NODE	2017/08/10
2020/00176	METHOD OF FIXING A WEAR ELEMENT ON THE FRONT EDGE OF A SUPPORT AND CORRESPONDING FIXING MEANS	2018/07/04
2020/00178	TECHNIQUE FOR GENERATING AND/OR MANAGING RNTIS	2018/08/01
2020/00179	SYSTEMS AND METHODS FOR PROVIDING A TONE EMITTING DEVICE THAT COMMUNICATES DATA	2018/07/02
2020/00183	HYDROXYLAPATITE/GELATINE COMPOSITE MATERIAL AND THE USE OF SAME, PARTICULARLY AS ARTIFICIAL IVORY, AND METHOD FOR PRODUCING SAME	2018/07/05
2020/00194	EDGE SHROUD AND METHOD FOR REMOVING EDGE SHROUD FROM AN IMPLEMENT	2018/06/04
2020/00195	EDGE PROTECTION SYSTEM FOR AN IMPLEMENT	2018/06/04
2020/00196	PROCESSES FOR PURIFYING LIGANDS	2018/06/12
2020/00202	INJECTION MOLDED SCREENING APPARATUSES AND METHODS	2013/03/13
2020/00219	NOVEL ANTI-HUMAN CEACAM5 ANTIBODY FAB FRAGMENT	2018/07/06
2020/00221	ELECTRICAL CONNECTION MOUNT COMPRISING A MOVABLE CONNECTION ELEMENT, ADDITIONAL ELECTRICAL CONNECTION MOUNT, AND ASSEMBLY COMPRISING SUCH MOUNTS	2018/06/26
2020/00223	IRRIGATION SYSTEM AND METHOD	2018/07/16
2020/00224	2-[4-(METHYLAMINOMETHYL)PHENYL]-5-FLUORO-BENZOFURAN-7-CARBOXAMIDE HYDROCHLORIDE POLYMORPH, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2018/05/31

Application Number	Patent Title	Filing Date
2020/00238	SOST ANTIBODY PHARMACEUTICAL COMPOSITION AND USES THEREOF	2018/07/26
2020/00239	GREY WATER TREATMENT SYSTEMS AND METHODS OF TREATING GREY WATER	2018/07/03
2020/00260	METHOD FOR CROSS-CUTTING A MATERIAL WEB MOVED IN A DIRECTION OF MOVEMENT, AND DEVICE THEREFOR	2018/07/26
2020/00280	PLASMINOGEN TREATMENT OF CONDITIONS ASSOCIATED WITH PAI-1 OVEREXPRESSION	2018/06/22
2020/00283	POWDER COATING METHOD AND COATED ARTICLE	2018/07/06
2020/00284	A METHOD OF RECOVERING PT OR AG OR PT AND AG FROM SULFATE BASED METAL SOLUTIONS	2018/06/20
2020/00286	HYDROFORMYLATION REACTION PROCESS	2018/06/19
2020/00311	GALVANIZED-WIRE COOLING DEVICE	2020/01/16
2020/00313	A HOLDING ARRANGEMENT FOR AN ACOUSTIC TRANSMITTER IN AN ACOUSTIC SPECTROSCOPY SYSTEM	2018/06/19
2020/00314	INHALER	2018/07/02
2020/00318	DATA STORAGE SYSTEM WITH REDUNDANT INTERNAL NETWORKS	2020/01/16
2020/00319	DATA STORAGE SYSTEM WITH ENFORCED FENCING	2020/01/16
2020/00336	HYBRID POLYMER FOR VISCO- ELASTIC PLASTIC SPACER	2020/01/17
2020/00341	ARM SUPPORT FOR CARRYING A BABY	2018/05/27
2020/00342	METHOD FOR CLASSIFYING ECO- GEOLOGICAL ENVIRONMENT TYPES BASED ON COAL RESOURCE EXPLOITATION	2019/01/25
2020/00343	WATER-SOLUBLE PACKAGE	2018/07/03
2020/00344	A METHOD OF EXECUTING A SERVICE FOR A SERVICE CONSUMER, AS WELL AS A CORRESPONDING NETWORK NODE AND A COMPUTER PROGRAM PRODUCT	2017/12/04
2020/00346	A PERSONAL CARE COMPOSITION	2018/07/09
2020/00348	USER EQUIPMENT, COMMUNICATION CONTROL METHOD OF USER EQUIPMENT, CORE NETWORK DEVICE,	2018/06/19

Application Number	Patent Title	Filing Date
	COMMUNICATION CONTROL METHOD OF CORE NETWORK, SMF, AND COMMUNICATION CONTROL METHOD OF SMF	
2020/00379	WIRELESS COMMUNICATION METHOD AND DEVICE	2017/07/05
2020/00381	PROCESS FOR MAKING ESTERS OF 2,5-FURANDICARBOXYLIC ACID	2018/06/20
2020/00383	DRILL BIT WITH DETACHABLE BIT HEAD	2018/07/17
2020/00410	APPARATUS AND METHOD FOR FILTERING AQUEOUS LIQUID	2018/08/13
2020/00413	METHOD AND DEVICE FOR SYNCHRONIZATION	2018/08/10
2020/00435	REFRACTORY LINING STRUCTURE	2018/08/21
2020/00454	CABLE CLAMPING APPARATUS	2018/08/20
2020/00456	METHOD FOR DEVICE-TO-DEVICE COMMUNICATION, TERMINAL DEVICE, AND NETWORK DEVICE	2017/08/04
2020/00459	OPTIMIZATION OF RADIO RESOURCE ALLOCATION BASED ON UNMANNED AERIAL VEHICLE FLIGHT PATH INFORMATION	2017/07/10
2020/00460	POWDERY MILDEW RESISTANT ROSE	2018/07/03
2020/00477	GENERATING DIGITAL MODELS OF NUTRIENTS AVAILABLE TO A CROP OVER THE COURSE OF THE CROP'S DEVELOPMENT BASED ON WEATHER AND SOIL DATA	2016/04/26
2020/00491	PEPTIDE AMIDE COMPOUNDS, PREPARATION METHOD THEREOF AND USE IN MEDICINE	2018/07/19
2020/00492	LIGHTWEIGHT STUNNING ROD	2018/08/14
2020/00508	A SHIELDED X-RAY RADIATION APPARATUS	2017/06/23
2020/00546	METHOD FOR DISINFECTING SOILS OR OTHER AGRICULTURAL GROWING MEDIA	2017/07/06
2020/00547	SYSTEM FOR RELEASING BENEFICIAL MITES AND USES THEREOF	2018/07/16
2020/00550	POLYCRYSTALLINE DIAMOND COMPOSITE COMPACT ELEMENTS AND METHODS OF MAKING AND USING SAME	2018/07/17
2020/00574	MESENCHYMAL STEM CELLS AS VACCINE ADJUVANTS AND METHODS FOR USING THE SAME	2017/02/02
2020/00586	NOVEL COMPOUNDS	2018/08/15
2020/00603	MIXER WITH SAFETY MECHANISMS	2018/03/15

Application Number	Patent Title	Filing Date
2020/00604	DEVICE FOR SECURING PANES OF GLASS FOR SLIDING DOORS	2018/08/02
2020/00606	AN ANTIMICROBIAL COMPOSITION	2018/08/02
2020/00609	NOVEL COMPOSITION OF ENZALUTAMIDE ORAL DOSAGE FORM AND METHOD OF MANUFACTURING THEREOF	2017/11/21
2020/00611	COAL NOZZLE WITH A FLOW CONSTRICTION	2020/01/29
2020/00629	METHOD FOR PREPARING A SURFACE COURSE AT THE SURFACE OF A HYDRAULIC COMPOSITION	2018/07/30
2020/00658	A FASTENING DEVICE	2020/01/31
2020/00663	HEAT MACHINE CONFIGURED FOR REALIZING HEAT CYCLES AND METHOD FOR REALIZING HEAT CYCLES BY MEANS OF SUCH HEAT MACHINE	2018/06/12
2020/00679	An electrically controlled broadband group antenna	2020/01/31
2020/00694	ROCKET LAUNCH MODULE AND ROCKET LAUNCH VEHICLE	2017/08/17
2020/00702	METHOD AND DEVICE FOR RANDOM ACCESS FOR BEAM FAILURE RECOVERY	2018/08/17
2020/00703	METHOD TO MANAGE DOWNLINK DATA DELIVERY STATUS	2018/09/26
2020/00722	REEL BRAKING SYSTEM	2018/08/20
2020/00723	METHOD FOR ETCHING A PHOSPHATE SOURCE USING ACID	2018/08/10
2020/00724	USER EQUIPMENT, BASE STATION AND WIRELESS COMMUNICATION METHOD	2017/08/10
2020/00725	AMINO ACID COMPOSITIONS FOR THE TREATMENT OF LIVER DISEASE	2018/08/14
2020/00728	METHOD AND APPARATUS TO TRANSFER DATA FROM A FIRST COMPUTER STATE TO A DIFFERENT COMPUTER STATE	2018/06/13
2020/00729	EVENT BASED DEFERRED SEARCH METHOD AND SYSTEM	2018/06/13
2020/00765	DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	2017/08/11
2020/00767	USER TERMINAL AND RADIO COMMUNICATION METHOD	2017/07/21
2020/00769	SUBTERRANEAN IRRIGATION SYSTEM	2018/07/27
2020/00771	BASE STATION, USER EQUIPMENT, AND RELATED METHOD	2018/07/23

Application Number	Patent Title	Filing Date
2020/00780	REFRIGERATION CONTROL SYSTEM	2020/02/06
2020/00803	ANTI-IGE ANTIBODIES	2017/06/08
2020/00811	LIQUID WASTE RECEPTOR	2018/07/20
2020/00836	METAL SHEET TREATMENT METHOD AND METAL SHEET TREATED WITH THIS METHOD	2018/09/14
2020/00851	ANTIBODIES USEFUL IN CANCER DIAGNOSIS	2018/09/05
2020/00855	METHODS AND COMPOSITIONS FOR APTAMER-DRIVEN SURFACE FORMULATION OF SELF-FORMING POLYNUCLEOTIDE NANOPARTICLES	2018/07/16
2020/00856	METHOD AND SYSTEM FOR ENSURING THE QUALITY OF A MULTI-COMPONENT MIXTURE FOR ROCK REINFORCEMENT	2018/10/19
2020/00877	5-MEMBERED AND BICYCLIC HETEROCYCLIC AMIDES AS INHIBITORS OF ROCK	2020/02/11
2020/00879	TRANSMISSION METHOD, APPARATUS AND SYSTEM FOR FEEDBACK ACKNOWLEDGE INFORMATION	2017/07/14
2020/00881	PHARMACEUTICAL COMBINATIONS COMPRISING AN ANTI BST-1 ANTIBODY AND A CYTIDINE ANALOGUE	2018/07/20
2020/00884	COMPOSITIONS FOR TREATING SKIN AND MUCOUS MEMBRANE INFECTIONS	2018/01/10
2020/00905	LIGHT AESTHETIC SUNSCREEN COMPOSITIONS	2020/02/12
2020/00914	METHOD FOR DEGRADATION OF GLIADIN TO OBTAIN GLUTEN-FREE FLOUR	2017/07/12
2020/00917	METHOD AND DEVICE FOR PROCESSING DATA	2017/07/21
2020/00918	LIFTING ARRANGEMENT AND LOADING MACHINE FOR UNDERGROUND APPLICATIONS	2018/10/23
2020/00920	THERAPEUTIC OR NON-THERAPEUTIC USE OF PROTOZOANS OF THE WILLAERTIA GENUS AS A FUNGISTATIC AND/OR FUNGICIDE	2018/08/09
2020/00921	SYSTEM AND METHOD FOR EXTRACTION OF SOLUBLE FLAVORING COMPONENTS FROM A SOLID FLAVOR CARRIER MATERIAL INTO A BREWING LIQUID	2018/06/12

Application Number	Patent Title	Filing Date
2020/00933	COMB FOR THE TREATMENT OF PEDICULOSIS	2017/07/14
2020/00936	METHOD FOR BAND SCANNING WHEN REFERENCE SIGNAL IS TRANSMITTED OVER REDUCED BANDWIDTH	2018/10/01
2020/00937	ENHANCED MEASUREMENT FILTERING CONFIGURATIONS FOR RADIO-LINK MANAGEMENT AND RADIO RESOURCE MANAGEMENT	2018/09/11
2020/00940	POWER SYSTEM IN A MINING MACHINE	2018/10/25
2020/00959	ADAMANTYLMETHYLAMINE DERIVATIVE AND USE THEREOF AS PHARMACEUTICAL	2018/08/02
2020/00966	POWER SYSTEM IN A MINING MACHINE	2018/10/25
2020/00998	A BALL LAUNCHER AND A BALL GAMING SYSTEM INCLUDING SUCH BALL LAUNCHER	2018/08/10
2020/00999	APPARATUS FOR DISPENSING CURABLE MATERIAL INTO A CABLE GLAND	2018/06/27
2020/01018	TERMINAL AND RADIO COMMUNICATION METHOD	2017/07/28
2020/01021	WAVE POWER GENERATION DEVICE	2018/07/18
2020/01022	ASSEMBLY FOR ASSISTING WITH THE POSITIONING OF AN INTERVERTEBRAL IMPLANT AND SURGICAL KIT INCORPORATING THE SAME	2018/08/16
2020/01023	WAKE-UP SIGNAL TRANSMISSION	2018/08/23
2020/01040	MITORIBOSCINS: MITOCHONDRIAL-BASED THERAPEUTICS TARGETING CANCER CELLS, BACTERIA, AND PATHOGENIC YEAST	2018/03/14
2020/01060	NODES AND METHODS FOR HANDLING PAGING	2018/10/05
2020/01063	PERSONAL CLEANSING COMPOSITION	2018/08/22
2020/01065	PERSONAL CLEANSING COMPOSITION	2018/08/22
2020/01077	MALTING PROCESS FOR STEEPING GRAIN COMPRISING A WATER CIRCULATION STEP	2018/08/30
2020/01084	METHOD FOR DATA TRANSMISSION, TERMINAL DEVICE AND NETWORK DEVICE	2017/07/24
2020/01111	MEDICAL DEVICE FOR MOVING A MEDICAL INSTRUMENT	2018/11/14

Application Number	Patent Title	Filing Date
2020/01115	CARBOHYDRATE SENSORS	2018/08/07
2020/01116	IMAGING INSTRUMENT FOR CONTROLLING A TARGET DESIGNATION	2018/07/11
2020/01117	TELESCOPE THAT IS EASIER TO MOUNT AND METHOD FOR ADJUSTING SUCH A TELESCOPE	2018/08/21
2020/01118	TELESCOPE WITH IMPROVED PERFORMANCE AND SIMPLIFIED MOUNTING	2018/08/21
2020/01119	BRET SENSOR MOLECULES FOR DETECTING HYDROLASES	2018/08/24
2020/01120	TELESCOPE WITH SIMPLIFIED MOUNTING	2018/08/21
2020/01122	BLEND CONTROL TRUCK ASSIGNMENT MONITORING SYSTEM AND METHOD	2018/07/09
2020/01128	METHODS AND APPARATUSES FOR CONTROLLING TIMING OF FEEDBACK TRANSMISSIONS	2015/10/21
2020/01129	RADIO COMMUNICATION SYSTEM AND USER DEVICE	2017/05/11
2020/01148	COMPOSITION FOR PREVENTING OR TREATING CANCER COMPRISING A VASCULAR DISRUPTING AGENT AND IMMUNE CHECKPOINT INHIBITOR	2018/07/25
2020/01149	LIP OF A SCOOP FOR EARTH-MOVING MACHINES	2017/07/27
2020/01154	TORQUE GENERATING APPARATUS	2017/08/23
2020/01165	A GROUT BAG	2020/02/25
2020/01170	SUPPORT STRUCTURE FOR WIND-DRIVEN POWER GENERATORS	2018/08/16
2020/01171	FREE FALL SIMULATOR COOLING SYSTEM	2018/07/26
2020/01172	ULTRASONIC FLOW RATE METERING	2018/08/30
2020/01173	SYSTEM INFORMATION REQUEST METHOD, CORRESPONDING USER EQUIPMENT AND COMPUTER READABLE MEDIUM	2018/07/23
2020/01174	PHARMACEUTICAL COMPOSITIONS CONTAINING HYALURONIC ACID AND CARNOSINE AND RELATIVE USE	2018/10/03
2020/01207	WIRELESS COMMUNICATION METHOD AND TERMINAL DEVICE	2017/08/04
2020/01208	SPIROCYCLE COMPOUNDS AND METHODS OF MAKING AND USING SAME	2018/08/28
2020/01210	METHOD FOR CONTROLLING	2018/08/28

Application Number	Patent Title	Filing Date
	GROWTH OF MICROORGANISMS AND/OR BIOFILMS IN AN INDUSTRIAL PROCESS	
2020/01242	TRICYCLIC HETEROCYCLES AS BET PROTEIN INHIBITORS	2020/02/27
2020/01260	SYSTEM AND METHOD FOR INJECTING AN EGG	2018/09/11
2020/01261	ACCELERATING ADMIXTURE FOR HYDRAULIC COMPOSITIONS	2018/09/21
2020/01266	SUBSTITUTED IMIDAZOQUINOLINES	2018/08/31
2020/01269	LAUNDRY PRODUCTS	2018/09/20
2020/01273	ELECTRONIC DEVICE	2018/05/02
2020/01285	ANTIGEN-BINDING PROTEINS TARGETING SHARED ANTIGENS	2018/08/17
2020/01310	DATA TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	2017/07/28
2020/01311	SOFT START MOTOR CONTROL SYSTEM FOR AN IRRIGATION SYSTEM	2018/04/30
2020/01312	PROCESSES AND SYSTEMS FOR METABOLITE PRODUCTION USING HYDROGEN RICH C1-CONTAINING SUBSTRATES	2018/09/06
2020/01313	METHODS AND DEVICES FOR INDIVIDUALIZED LAUNDRY	2018/09/20
2020/01314	NOVEL ANTI-CD3EPSILON ANTIBODIES	2018/09/20
2020/01317	PASTEURIZER	2018/08/24
2020/01319	CORE NETWORK ALLOCATION HANDLING	2017/11/30
2020/01322	INTERFERENCE MITIGATION IN A COMMUNICATIONS NETWORK	2017/10/09
2020/01323	ENERGY COLLECTOR	2018/08/08
2020/01340	HETEROCYCLIC COMPOUND AND USE THEREOF	2018/08/02
2020/01394	TBS DETERMINATION WITH MULTIPLE BASE GRAPHS	2018/05/10
2020/01395	NON-SOAP LIQUID CLEANSER COMPOSITION COMPRISING CAPRYLIC ACID	2018/09/26
2020/01396	UNIFIED UL AND DL BEAM INDICATION	2018/09/10
2020/01423	ELECTROMECHANICAL CONTACT FUSE FOR MULTI-PURPOSE AIRCRAFT AMMUNITION	2018/08/14
2020/01531	NEOANTIGEN IDENTIFICATION FOR T-CELL THERAPY	2018/09/05
2020/01610	BIS-IMINE TITANIUM COMPLEX, CATALYTIC SYSTEM COMPRISING SAID BIS-IMINE TITANIUM	2018/09/28

Application Number	Patent Title	Filing Date
	COMPLEX AND PROCESS FOR THE (CO)POLYMERIZATION OF CONJUGATED DIENES	
2020/01646	TREATMENT OF CHOLESTATIC PRURITUS	2018/09/24
2020/01683	WING TILT ACTUATION SYSTEM FOR ELECTRIC VERTICAL TAKE-OFF AND LANDING (VTOL) AIRCRAFT	2018/09/06
2020/01684	WING TILT ACTUATION SYSTEM FOR ELECTRIC VERTICAL TAKE-OFF AND LANDING (VTOL) AIRCRAFT	2018/09/06
2020/01711	FULL METAL JACKET SAFETY BULLET, IN PARTICULAR FOR MULTI-PURPOSE APPLICATIONS	2018/09/10
2020/01712	SOLAR TOWER SYSTEM CONTAINING MOLTEN CHLORIDE SALTS	2018/10/11
2020/01788	METHOD FOR CONFIGURING ANR, TERMINAL DEVICE, BASE STATION, AND CORE NETWORK DEVICE	2018/04/13
2020/01789	METHOD AND APPARATUS FOR CONTROLLING A WINEMAKING PROCESS	2018/08/10
2020/01792	CONVERTIBLE EXAMINATION TABLE	2018/08/22
2020/01812	HEAVY DUTY ADAPTER	2018/07/25
2020/01813	HEAVY DUTY TIP	2018/07/25
2020/01835	METHOD FOR PRODUCTION OF AT LEAST ONE TANNIC PRODUCT AND A BARK PRODUCT WITH ENHANCED FUEL VALUE	2018/09/11
2020/01837	HAIR CONDITIONING COMPOSITION	2018/10/24
2020/01927	METHOD FOR TREATING TNF ALPHA-RELATED DISEASE	2018/08/29
2020/01929	METHOD FOR CONTROLLING GROWTH OF MICROORGANISMS AND/OR BIOFILMS IN AN INDUSTRIAL PROCESS	2018/08/28
2020/01932	CONVEYOR SKIRT SYSTEM	2018/08/28
2020/02037	CAP-DEPENDENT ENDONUCLEASE INHIBITORS	2019/01/22
2020/02055	AIR CONDITIONING MODULE	2018/10/11
2020/02143	MOBILE ADVERTISING SYSTEM	2018/08/31
2020/02162	BALL TOY	2018/10/10
2020/02311	METHOD FOR PRODUCING A PRECOATED STEEL SHEET AND ASSOCIATED SHEET	2018/10/19
2020/02313	COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF	2018/11/05

Application Number	Patent Title	Filing Date
	MANUFACTURING THEREOF	
2020/02314	A HOT-DIP COATED STEEL SHEET	2018/10/19
2020/02356	A PROCESS FOR CONVERSION OF FUEL GRADE COKE TO ANODE GRADE COKE	2020/05/04
2020/02381	A HOT-DIP COATED STEEL SUBSTRATE	2018/10/22
2020/02382	COLD ROLLED AND ANNEALED STEEL SHEET AND METHOD OF MANUFACTURING THE SAME	2018/11/21
2020/02384	A COATED STEEL SUBSTRATE	2018/12/11
2020/02387	COLD ROLLED AND ANNEALED STEEL SHEET AND METHOD OF MANUFACTURING THE SAME	2018/11/21
2020/02389	A COATED STEEL SUBSTRATE	2018/12/11
2020/02403	DEVICE FOR EXCHANGING A POLISHING DISC	2018/12/19
2020/02405	SPRING LINK FOR A SPRING LINK BREATHING BAG PLATE SYSTEM OF A CLOSED-CIRCUIT BREATHING APPARATUS, SPRING LINK BREATHING BAG PLATE SYSTEM AND CLOSED-CIRCUIT BREATHING APPARATUS	2018/11/19
2020/02478	COLD ROLLED AND HEAT TREATED STEEL SHEET, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS	2018/12/18
2020/02523	ANALYSIS/SYNTHESIS WINDOWING FUNCTION FOR MODULATED LAPPED TRANSFORMATION	2018/11/08
2020/02524	ENCODING AND DECODING AUDIO SIGNALS	2018/11/06
2020/02529	IMPROVED COMPOUND FOR TREATMENT OF HEART FAILURE	2018/12/14
2020/02569	SIGNAL FILTERING	2018/11/09
2020/02570	ASYMMETRIC PCR METHODS	2018/11/21
2020/02621	METHOD FOR THE TREATMENT OF WOOD PARTICLES FOR THE PRODUCTION OF ALCOHOLIC BEVERAGES AND THEIR USE AND AN APPARATUS FOR THEIR USE	2017/11/29
2020/02718	INSTALLATION FOR A HANGING CULTIVATION SYSTEM	2017/11/23
2020/02725	GLYCOSIDIC DERIVATIVES OF TREPROSTINIL	2018/12/13
2020/02806	AN APPARATUS FOR RAISING OR LOWERING AN ELECTRICAL DEVICE FIXTURE	2020/05/15
2020/02813	BENDING APPARATUS FOR A RIB MEMBER	2020/05/15

Application Number	Patent Title	Filing Date
2020/02821	USE OF A VEGF ANTAGONIST TO TREAT ANGIOGENIC EYE DISORDERS	2018/11/29
2020/02823	METHOD AND ASSEMBLY FOR TREATING THE ATMOSPHERE IN A SPACE USED TO STORE VEGETABLE PRODUCTS AT HIGH RELATIVE HUMIDITY	2018/11/15
2020/02918	HANDLING OF PDCP DURING CONNECTION RE-ESTABLISHMENT	2018/10/25
2020/03003	BAG FOR LOOSE MATERIAL	2018/11/12
2020/03028	NOVEL USE OF 3-(4-(BENZYLOXY)PHENYL)HEX-4-INOIC ACID DERIVATIVE	2018/12/03
2020/03072	VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE	2018/12/11
2020/03073	VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE	2018/12/11
2020/03219	SURGICAL CAP WITH POCKET	2018/12/26
2020/03221	DRUM MOUNTED, ON-DEMAND FLUID TRANSFER PUMP	2018/08/29
2020/03227	METHOD AND SYSTEM FOR ONLINE AUCTIONS	2018/09/27
2020/03308	CONTROL DEVICE FOR CONTROLLING A KITE STEERING ARRANGEMENT	2020/06/03
2020/03310	POLY-ADP RIBOSE POLYMERASE (PARP) INHIBITORS	2017/12/28
2020/03321	CONTACT TRAY FOR A MASS TRANSFER COLUMN	2018/12/19
2020/03357	COMPACT POWER PLANT	2018/11/11
2020/03366	METHOD AND TAIL-END DISCHARGE MONITORING SENSOR FOR VERIFYING AND JUDGING SEWAGE TREATMENT PROCESS	2020/06/05
2020/03384	SYSTEM FOR GENERATING ELECTRICAL ENERGY FROM THE WAVE MOTION OF THE SEA	2020/06/05
2020/03400	BULK FLUID STORAGE FACILITY AND PROCESS	2020/06/08
2020/03422	SCAFFOLD HAVING AN ANTI-LIFT-OUT DEVICE AND METHOD FOR SECURING A SCAFFOLD PLATFORM AGAINST LIFTING OUT	2019/01/15
2020/03423	POST CONNECTION ADAPTER	2019/01/15
2020/03441	AUDIO ENCODERS, AUDIO DECODERS, METHODS AND COMPUTER PROGRAMS ADAPTING AN ENCODING AND DECODING OF LEAST SIGNIFICANT BITS	2018/11/08

Application Number	Patent Title	Filing Date
2020/03456	DEFORMATION-INSPECTING PIPELINE CLEANING DEVICE	2020/06/09
2020/03496	SPRAYING OF PLANTS FORMING AN OVERHEAD CANOPY	2020/06/11
2020/03507	FASTENING DEVICE FOR HOISTING ROPE OF HOISTING DEVICE	2020/06/11
2020/03508	INJECTABLE COMBINATION OF DICLOFENAC SODIUM AND THIOLCHOLCHICOSIDE	2020/06/11
2020/03523	LOCKING TOP FOR VESSEL HAVING A NECK	2020/06/12
2020/03555	APPARATUS, REAGENT KIT, AND METHOD FOR DETECTING MISFOLDED PROTEIN	2018/11/14
2020/03578	DEVICE AND METHOD FOR ANCHORING EQUIPMENT TO A CIVIL ENGINEERING STRUCTURE	2018/12/14
2020/03581	CRYSTAL FORM OF URAT1 INHIBITOR, AND PREPARATION METHOD THEREFOR	2018/11/20
2020/03591	PET PROCESSING SYSTEM AND METHOD	2020/06/15
2020/03617	RAILCAR TRUCK BOLSTER	2018/12/12
2020/03633	NANOPARTICLE COMPOSITIONS AND METHODS FOR ENHANCING LEAD-ACID BATTERIES	2018/11/28
2020/03698	PLAYER INPUT MOTION COMPENSATION BY ANTICIPATING MOTION VECTORS	2018/04/20
2020/03699	PLAYER INPUT MOTION COMPENSATION BY ANTICIPATING MOTION VECTORS	2018/04/20
2020/03700	COMPOSITIONS AND DEVICES FOR SYSTEMIC DELIVERY OF URIDINE	2019/02/01
2020/03767	AXIALLY ROTATING ELECTRIC HEATING DEVICE FOR EXTRACTING TOBACCO	2018/11/28
2020/03800	GAS REFILL PREVENTION MECHANISM OF A COOKING GAS VALVE	2020/06/23
2020/04017	CRYSTAL FORM OF RENAL OUTER MEDULLARY POTASSIUM CHANNEL INHIBITOR AND PREPARATION METHOD THEREOF	2018/12/05
2020/04018	PALLET BLOCK, PALLET INCLUDING SAME AND PROCESS FOR OBTAINING SAME	2017/12/06
2020/04055	SALT OF PHENYLPROPIONAMIDE DERIVATIVE AND PREPARATION METHOD THEREFOR	2018/12/05
2020/04058	COMBINATION OF AN ANTIMUSCARINIC OR AN	2019/02/05

Application Number	Patent Title	Filing Date
	ANTICHOLINERGIC AGENT AND LIPOIC ACID AND USES THEREOF	
2020/04111	INTERNAL COMBUSTION ENGINE	2020/07/06
2020/04118	REACTOR FOR GAS-LIQUID MASS TRANSFER	2018/01/17
2020/04148	HERBICIDAL COMPOUNDS	2020/07/07
2020/04166	SYSTEM AND METHOD FOR VERIFYING AUTHENTICITY OF A DOCUMENT	2020/07/08
2020/04226	FIRE SUPPRESSION CUT-OFF DEVICE	2020/07/10
2020/04229	STRUCTURAL KIT AND METHOD OF ASSEMBLING AND MANUFACTURING COMPONENTS THEREOF	2020/07/10
2020/04230	SUPPORT ARRANGEMENT FOR AN ELECTRICAL PROTECTION ASSEMBLY	2020/07/10
2020/04275	COLLAR CONTROL SYSTEM FOR MOBILE DRILLING MACHINES	2020/07/13
2020/04328	CLOSED HYDRAULIC ROCK DRILL	2018/12/13
2020/04346	STEERABLE MULTI-TERRAIN CART AND METHOD THEREFOR	2018/12/19
2020/04352	AMIDINE SUBSTITUTED BENZOYL DERIVATIVES USEFUL AS HERBICIDES	2020/07/15
2020/04400	GRAB	2020/07/17
2020/04406	USE OF QUININE OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF IN THE MANUFACTURE OF MEDICAMENT FOR TREATING ATOPIC DERMATITIS	2020/07/17
2020/04412	METHOD FOR PRODUCING CARBODIIMIDES	2020/07/17
2020/04415	PHASE SHIFT KEYED SIGNALING TONE	2020/07/17
2020/04451	DUPLEX FLUORESCENCE QUANTITATIVE RT-PCR KIT FOR DIFFERENTIAL DETECTION OF NSS-DELETION TYPE FROM WILD-TYPE OF RIFT VALLEY FEVER VIRUS	2020/07/20
2020/04483	TRAPEZOIDAL RIB MOUNTING BRACKET WITH FLEXIBLE LEGS	2020/07/21
2020/04484	SOFT-SENSING METHOD AND SYSTEM FOR COMPREHENSIVE HYDRAULIC CYLINDER TEST BENCH	2020/07/21
2020/04489	VENTILATION DUCT	2020/07/21
2020/04490	SPARE WHEEL CARRIER	2020/07/21
2020/04491	CALIBRATION METHOD FOR	2020/07/21

Application Number	Patent Title	Filing Date
	OPTIMAL MAGNETIC FIELD ARRANGEMENT OF 3D HELMHOLTZ COIL	
2020/04520	A FOOD DEHYDRATION SYSTEM	2020/07/22
2020/04525	IMPROVED ARM WITH TWO OR MORE HOOKS	2020/07/22
2020/04532	COMPOSITIONS FOR THE MANAGEMENT OF HYPERGLYCEMIA AND RELATED CONDITIONS	2018/12/26
2020/04542	COMPOSITE BASED ON A LAMELLAR MATERIAL AND A POROUS MATERIAL COMPRISING AN ACTIVE SUBSTANCE AND/OR A MICRO-ORGANISM	2020/07/22
2020/04543	CONTINUOUS STRAND HAVING WATER WASHABILITY AND SEPARABILITY DURING CURLING PROCESS AND COMPRISING FILAMENTS BONDED TO EACH OTHER BY THERMAL SURFACE BONDING, WET LOOK WIG USING SAME, AND METHOD FOR MANUFACTURING SAME	2020/07/22
2020/04568	TRANSMISSION DEVICE, TRANSMISSION METHOD, RECEIVING DEVICE, RECEIVING METHOD, AND COMMUNICATION SYSTEM	2020/07/23
2020/04569	ENERGY-SAVING AND TEMPERATURE-INCREASING STRAWBERRY ELEVATED SUBSTRATE CULTIVATION DEVICE	2020/07/23
2020/04587	AUXILIARY TRAILER	2020/07/24
2020/04597	EXPANDABLE HEAVY EQUIPMENT, ELONGATED PULL ELEMENT, AND USE OF EXPANDABLE HEAVY EQUIPMENT	2020/07/24
2020/04633	WINDOW-TYPE FLY CATCHER	2020/07/27
2020/04652	AUTOMATIC FORM COMPLETION FROM A SET OF FEDERATED DATA PROVIDERS	2020/07/28
2020/04670	FLUSH VALVE FOR A CISTERN	2020/07/29
2020/04671	TARPAULIN	2020/07/29
2020/04673	DETECTION AND MANAGEMENT OF DISEASE OUTBREAKS IN LIVESTOCK USING HEALTH GRAPH NETWORKS	2020/07/29
2020/04674	A CONTAINER	2020/07/29
2020/04681	VARIANT CD3-BINDING DOMAINS AND THEIR USE IN COMBINATION THERAPIES FOR THE TREATMENT	2019/02/13

Application Number	Patent Title	Filing Date
	OF DISEASE	
2020/04684	MANUFACTURING METHOD FOR EXHAUST GAS PURIFICATION DEVICE	2020/07/29
2020/04716	SPUNBOND LAMINATE AND METHOD OF MAKING SAME	2020/07/30
2020/04755	AIR VALVE TOOL	2020/07/31
2020/04756	TPU-BASED COMPOSITE MATERIAL FOR LIQUID LEVEL SENSOR CABLES AND PREPARATION METHOD THEREOF	2020/07/31
2020/04761	A SAFETY SYSTEM AND METHOD FOR DE-COUPLING OF A CATHODICALLY PROTECTED STRUCTURE	2020/07/31
2020/04766	A MEMORY MANAGEMENT SYSTEM AND METHOD	2020/07/31
2020/04768	TRIAZOLE, IMIDAZOLE AND PYRROLE CONDENSED PIPERAZINE DERIVATIVES AND THEIR USE AS MODULATORS OF MGLU5 RECEPTORS	2019/01/17
2020/04781	METHOD FOR REGULATING OPERATING PARAMETERS OF A NUCLEAR REACTOR AND CORRESPONDING NUCLEAR REACTOR	2019/02/01
2020/04799	METHOD OF MEASURING A SKILL	2020/08/03
2020/04800	A YIELDING WALL BOLT	2020/08/03
2020/04816	A SAUSAGE CUTTING APPARATUS	2020/08/04
2020/04845	METHOD OF MANUFACTURING A BUILDING MATERIAL AND A CONSTRUCTION MEMBER THEREFROM	2020/08/05
2020/04861	IL-4Ra ANTIBODY AND USE THEREOF	2020/08/05
2020/04869	FLUID DISPENSER	2019/02/01
2020/04873	BARRIER ARRANGEMENT	2020/08/06
2020/04874	DEVICE AND METHOD FOR SUBTERRANEAN DRAINAGE INSTALLATION	2020/08/06
2020/04875	A GUARD	2020/08/06
2020/04876	A WEARABLE SIGNALLING DEVICE	2020/08/06
2020/04878	MAST COUPLING ASSEMBLY FOR A MOBILE DRILLING MACHINE	2020/08/06
2020/04880	COMPOSITION FOR A SPORTS SURFACE, IN PARTICULAR FOR AN EQUESTRIAN SPORT, AND METHOD FOR PRODUCING SUCH A COMPOSITION	2019/02/12
2020/04929	DNA MARKERS LINKED TO TOLERANCE AGAINST INSECT	2020/08/07

Application Number	Patent Title	Filing Date
	PEST LEPTOCYBE INVASA IN EUCALYPTUS GRANDIS	
2020/04930	A THICKNESS INDUCED NARROW-BAND INORGANIC PHOTODETECTORS BASED ON SCHOTTKY JUNCTION AND A PREPARATION METHOD THEREOF	2020/08/11
2020/04933	APPARATUS FOR SECURING A SUPPORT STRUCTURE TO A ROOF BOLT	2020/08/11
2020/04937	TREATMENT OF WOOD WITH ALDEHYDE AND ISOCYANATE	2020/08/11
2020/04946	SYSTEM TO CONVERT CELLULOSIC MATERIALS INTO SUGAR AND METHOD OF USING THE SAME	2019/01/16
2020/04950	RAILWAY VEHICLE, COUPLER, AND COUPLER BODY THEREOF	2020/08/11
2020/04963	A SYSTEM FOR PREVENTING THE REFUELLING OF A VEHICLE WITH THE INCORRECT FUEL TYPE	2020/08/12
2020/04971	COMPOSITIONS, KITS, METHODS AND USES FOR CLEANING, DISINFECTING, STERILIZING AND/OR TREATING	2019/01/14
2020/04972	1,2,3,5-TETRAHYDRO-2H-SPIRO[INDOLE-3,1-PYRROLO[3,4-C]PYRROLE]-2,3-DIONE COMPOUNDS AS THERAPEUTIC AGENTS ACTIVATING TP53	2019/01/09
2020/04975	EXTRACTION OF ALKANOIC ACIDS	2019/02/15
2020/04976	A BREATHING ASSEMBLY FOR A PERISTALTIC PUMP	2019/02/04
2020/04991	NEW SPIROOXATHIOLANONE COMPOUNDS, THEIR PREPARATION METHOD AS WELL AS THEIR USE IN PERFUME-MAKING AND AROMATICS INDUSTRY	2019/01/23
2020/05010	CONVEYOR IDLER ROLLER MONITORING ASSEMBLY	2018/01/31
2020/05044	HERBICIDAL 3-AZASPIRO[5.5]UNDECANE-8,10-DIONE COMPOUNDS	2020/08/14
2020/05047	IRRIGATION SYSTEM FOR APPLYING APPLICANT HAVING A MICROBE CONCENTRATION TO ENHANCE CROP PRODUCTION	2019/03/26
2020/05071	AN APPARATUS FOR SANITIZING A WORKING SURFACE	2020/08/17
2020/05089	GEOHERMAL ENERGY DEVICE	2019/01/25

Application Number	Patent Title	Filing Date
2020/05100	EMASCULATION AND HYBRIDIZATION METHOD OF SORGHUM	2020/08/18
2020/05116	MINERALS PROCESSING	2020/08/18
2020/05139	A METHOD FOR DYNAMICALLY DETERMINING OPTIMAL LAYERING NUMBER OF INSULATION IN TRANSIENT THERMAL CIRCUIT OF HIGH-VOLTAGE CABLE	2018/10/22
2020/05141	FRAUD DETECTING MECHANISM, PAPER SHEET CARRYING DEVICE AND PAPER SHEET HANDLING DEVICE	2018/10/09
2020/05142	AN INTEGRATED DUAL-TYPE LASER DEVICE FOR IMPROVING A SURFACE QUALITY OF SLM FORMED PARTS AND METHOD THEREOF	2018/10/24
2020/05143	ORAL FORMULATIONS AND USES THEREOF	2019/02/01
2020/05144	PARENTERAL FORMULATIONS AND USES THEREOF	2019/02/01
2020/05161	VEHICLE COUPLER, COUPLER TONGUE AND COUPLER BODY	2020/08/19
2020/05171	COORDINATE TRANSFORMATION METHOD AND DEVICE USING BAYESIAN REGULARIZED BP NEURAL NETWORK	2020/08/20
2020/05172	PIVOTING ROTARY FOUR BLADE RAZOR HEAD	2020/08/20
2020/05210	AROMATIZATION CATALYST AND PREPARATION PROCESS AND USE THEREOF	2020/08/21
2020/05211	LITHIUM-TITANATE BATTERY PACK	2020/08/21
2020/05215	CHANNELISED GAIN CONTROL OF LINE AMPLIFIERS	2020/08/21
2020/05219	SYSTEM AND METHOD FOR EXTRACTING AND SEPARATING BOTANICAL OILS WITHOUT THE USE OF SOLVENTS	2019/02/27
2020/05220	PATIENT-SPECIFIC ARTHROPLASTY SYSTEM	2019/03/06
2020/05221	ENGINEERED CRUMB RUBBER COMPOSITION FOR USE IN ASPHALT BINDER AND PAVING MIX APPLICATIONS	2019/02/22
2020/05250	SYSTEM FOR MANAGING AN ORDER BETWEEN A CLIENT AND A SUPPLIER	2020/08/24
2020/05253	ELECTRIC VEHICLE THERMAL MANAGEMENT SYSTEM FOR HOT CLIMATE REGIONS	2020/08/24

Application Number	Patent Title	Filing Date
2020/05274	SUPPORT STRUCTURE	2020/08/25
2020/05275	WATCH AUTO-INDUCTION INFUSION ALARM DEVICE	2020/08/25
2020/05276	METHOD OF RECOVERING S AND FE FROM COMPLEX CU-S-FE POLYMETALLIC ORE CONTAINING EASY-TO-FLOAT SILICATE GANGUE	2020/08/25
2020/05289	SMART MULTIFUNCTION ELECTRICALLY POWERED SUITCASE	2018/02/14
2020/05333	NEW TYPE DISC MOTOR WITH COOLING CHANNELS	2020/08/27
2020/05334	NEW TYPE DOUBLE-ROTOR SINGLE STATOR AMORPHOUS ALLOY DISC MOTOR	2020/08/27
2020/05335	DOUBLE-ROTOR SINGLE STATOR DISC MOTOR	2020/08/27
2020/05336	COOLING SYSTEM AND DISC MOTOR WITH COOLING SYSTEM	2020/08/27
2020/05371	COMMUNICATION SYSTEM	2020/08/28
2020/05377	A METHOD AND SYSTEM FOR PRODUCING FRESHWATER USING A REVERSE OSMOSIS MEMBRANE SYSTEM	2019/03/06
2020/05382	METHOD FOR PLANNING OR CONTROLLING THE MOVEMENTS OF A PLURALITY OF VEHICLES OVER A NETWORK OF ROUTES	2020/08/28
2020/05386	ETHERAMINE MIXTURE CONTAINING POLYETHER DIAMINES AND METHOD OF MAKING AND USING THE SAME	2020/08/28
2020/05393	CONTAINER	2019/01/04
2020/05413	BOX GIRDER, IN PARTICULAR CRANE GIRDER, AND CRANE HEREWITH AS WELL AS MANUFACTURING METHOD THEREFOR	2019/04/17
2020/05418	SAFETY DEVICE FOR A FIREARM	2020/08/31
2020/05419	C-TERMINAL ANTIBODY VARIANTS	2020/08/31
2020/05423	RAILWAY TRUCK ASSEMBLY HAVING FORCE-DETECTING LOAD CELLS	2020/08/31
2020/05425	PYRAMIDAL WALL SECTIONS	2020/08/31
2020/05429	AN IMPROVED DEWATERING METHOD AND APPARATUS	2020/08/31
2020/05431	HERBICIDAL COMPOUNDS	2020/08/31
2020/05449	VERTICALLY FOLDABLE DOUBLE TREADMILL	2020/09/01
2020/05510	A PROCESS FOR ENTEROVIRUS PURIFICATION AND INACTIVATION AND VACCINE COMPOSITIONS	2019/02/06

Application Number	Patent Title	Filing Date
	OBTAINED THEREOF	
2020/05522	ROTARY-PERCUSSIVE HYDRAULIC DRILL PROVIDED WITH A CONTROL CHAMBER WHICH IS PERMANENTLY CONNECTED TO A LOW-PRESSURE ACCUMULATOR	2019/01/16
2020/05589	RAISED CONTAINER WICKING IRRIGATION SYSTEM	2020/09/09
2020/05600	177LU-DOTA-HYNIC-IPSMAS AS A THERAPEUTIC RADIOPHARMACEUTICAL TARGETING PROSTATE-SPECIFIC MEMBRANE ANTIGEN	2019/03/07
2020/05604	COIL MADE OF A COILED METAL STRIP HAVING A MARKING, AND USE OF SAID MARKING	2019/03/22
2020/05622	PROXY WEB ACCESS FOR MOBILE NETWORKS	2020/09/10
2020/05628	PARTICLE CONTAINING AT LEAST ONE VOLATILE SUBSTANCE, PROCESS FOR ITS PREPARATION, A FOOD OR FEED ADDITIVE CONTAINING THE SAME AND USE	2019/03/22
2020/05631	PREFABRICATED INSULATED BUILDING PANEL WITH AT LEAST ONE CURED CEMENTITIOUS LAYER BONDED TO INSULATION	2019/02/13
2020/05632	A BARRIER SYSTEM, BARRIER CONNECTION APPARATUS, BARRIER ELEMENT AND METHOD OF USE THEREOF	2019/03/04
2020/05635	CATHODE ASSEMBLY FOR ELECTROLYTIC CELL	2019/02/14
2020/05651	DEVICE FOR LOCKING A PLUNGER ROD OF A SYRINGE AFTER USE AND PREVENTING RE-USE OF THE SYRINGE, AND SYRINGE ASSEMBLY	2020/09/11
2020/05662	ANTI-DENGUE VIRUS ANTIBODIES HAVING CROSS-REACTIVITY TO ZIKA VIRUS AND METHODS OF USE	2019/03/15
2020/05670	SILENCER FOR A PORTABLE FIREARM	2019/03/28
2020/05679	METHOD FOR FORMING A LAYER OF SINGLE-PHASE OXIDE (FE, CR) ₂ O ₃ WITH A RHOMBOHEDRAL STRUCTURE ON A STEEL OR SUPER ALLOY SUBSTRATE	2019/03/15
2020/05680	METHOD OF MARKING A SOLID-STATE MATERIAL, MARKINGS FORMED FROM SUCH METHODS AND SOLID-STATE MATERIALS MARKED ACCORDING TO SUCH A	2019/02/22

Application Number	Patent Title	Filing Date
	METHOD	
2020/05742	PORTABLE HEATED PRESS	2019/03/25
2020/05749	SUPPORTING AND REINFORCING ELEMENT, FLAT METAL SHEET, DRAINAGE SYSTEM AND PRODUCTION METHOD	2019/02/20
2020/05753	ARRANGEMENT FOR MONITORING TOOLS DURING THE MACHINING OF ROTATIONALLY SYMMETRICAL WORKPIECES	2018/07/20
2020/05768	EXTENDED RELEASE PHARMACEUTICAL COMPOSITIONS OF LEVETIRACETAM	2020/09/17
2020/05771	NUCLEAR REACTOR AND CORRESPONDING MAINTENANCE METHOD	2019/04/04
2020/05798	WIRELESS COMMUNICATION METHOD, TERMINAL, AND NETWORK DEVICE	2018/05/09
2020/05804	NATURAL MOSQUITO LARVICIDE	2019/02/20
2020/05859	PRECISION FORMING DEVICE PRODUCING LONG SHAFT GEAR HAVING BOSS	2020/09/22
2020/05903	LASER TRANSFER PRINTING DEVICE AND METHOD	2018/12/07
2020/05919	PREHEATED THERMOMETER	2018/11/29
2020/05922	A CLAMP	2019/04/03
2020/05962	DEVICE FOR CONTROLLING A BORING ACCESSORY, EQUIPPED WITH AN ANGLE MEASUREMENT DEVICE	2019/04/11
2020/05963	PRODUCE HARVESTING APPARATUS AND PRECISION FARMING SYSTEM	2019/02/28
2020/05967	A METHOD OF INDUCING OR IMPROVING WOUND HEALING PROPERTIES OF MESENCHYMAL STEM CELLS	2019/04/12
2020/05980	GENES, CONSTRUCTS AND MAIZE EVENT DP-202216-6	2019/04/16
2020/05983	SAFETY PULL CORD FOR A CONVEYOR	2019/03/06
2020/06004	APPARATUSES FOR DEHYDROGENATION OF ALKANES	2020/09/29
2020/06033	METHOD FOR OBTAINING SYNTHETIC DIAMONDS FROM SUCROSE AND DEVICE FOR CARRYING OUT SAID METHOD	2019/01/28
2020/06246	APPARATUS AND METHOD FOR THERMAL TREATMENT OF MOVING WEB STRIPS	2019/11/13
2020/06279	CONTAINER FOR TRANSPORTING	2020/10/09

Application Number	Patent Title	Filing Date
	PACKAGES	
2020/06288	STORAGE APPARATUS	2019/04/12
2020/06312	RAPID METHODS FOR THE DETECTION OF MICROBIAL RESISTANCE	2019/04/19
2020/06313	METHOD AND DEVICE FOR REPLACING SLEEVES LINING NUCLEAR REACTOR PRESSURE VESSEL TUBES	2018/04/13
2020/06404	METHOD FOR SYNTHESIZING HIGH-QUALITY INORGANIC FILM BY MICROWAVE HEATING	2020/09/22
2020/06427	TRIGGER RESISTANCE SETTING MECHANISM	2020/10/16
2020/06433	PROCESSING RARE EARTH SULPHATE SOLUTIONS	2019/05/02
2020/06468	BARRIER	2020/10/16
2020/06470	A CONTROL METHOD OF AUTOMATIC TEMPERATURE CONTROL TOBACCO LEAF DRYER	2020/10/19
2020/06530	VEHICLE INTERIOR SPACE UV DECONTAMINATION SYSTEM	2020/10/21
2020/06542	ELECTROCHEMICAL CELL WITH HIGH CAPACITY AND LOW SELF-DISCHARGE	2019/04/23
2020/06591	COMPOSITIONS FOR THE TREATMENT OF HYPERTENSION	2019/07/26
2020/06620	DEVICE FOR SECURING A CONTAINER ON THE LOADING SURFACE OF A VEHICLE	2019/06/05
2020/06620	DEVICE FOR SECURING A CONTAINER ON THE LOADING SURFACE OF A VEHICLE	2019/06/05
2020/06621	LOADING ARM ARRANGEMENT FOR A LOAD CHANGING VEHICLE FOR LOADING ISO CONTAINERS AND FOR LOADING TRANSPORT CONTAINERS HAVING A HOOK	2019/06/05
2020/06622	LOADING ARM ARRANGEMENT FOR A SWAP BODY VEHICLE	2019/06/05
2020/06648	DIRECT DRIVE MIXING DEVICE	2019/03/27
2020/06649	THERMAL ENERGY STORAGE FACILITY	2019/05/02
2020/06667	UNIT WITH POWER AND/OR DATA SOCKETS AND WIRELESS CHARGER FOR MOBILE DEVICES	2020/10/27
2020/06691	ABRADING WITH AN ABRADING PLATE	2019/06/13
2020/06744	A MEMBRANE-LESS REACTOR DESIGN AND PROCESS FOR BIOTRANSFORMATION OF CARBON DIOXIDE	2020/10/29

Application Number	Patent Title	Filing Date
2020/06748	A METHOD FOR USING PLANT HETEROSIS	2019/03/06
2020/06790	METHOD AND SYSTEM FOR CONTROLLING THE FUNCTIONALITY OF A MOBILE DEVICE	2020/10/30
2020/06795	LAPTOP STAND	2020/10/30
2020/06796	SYSTEM AND PROCESS FOR PREPARING A REACTION FEEDSTOCK	2020/10/30
2020/06800	REAL TIME GOLF SWING TRAINING AID	2019/06/27
2020/06803	WIND TURBINE	2019/04/26
2020/06805	MILK DELIVERY DEVICE FOR A FULLY AUTOMATED COFFEE MACHINE AND CORRESPONDING METHOD	2020/02/14
2020/06821	A MEDICAL NEEDLE	2019/04/03
2020/06860	MANUFACTURING ARRANGEMENT FOR A FUEL CELL STACK AND METHOD FOR MANUFACTURING A FUEL CELL STACK	2019/06/18
2020/06861	MEMBRANE ELECTRODE ASSEMBLY, FUEL CELL STACK WITH MEMBRANE ELECTRODE ASSEMBLY AND ALIGNMENT TOOL FOR FUEL CELL STACK	2019/06/18
2020/06872	PROTECTED SHUTTER BOARD	2020/11/04
2020/06873	ENHANCED SHUTTER BOARD	2020/11/04
2020/07084	HIGH-EFFICIENCY HIGH-ENERGY LIGHT PHOTOELECTRIC CONVERSION MATERIAL AND FABRICATION METHOD THEREFOR	2019/07/05
2020/07086	STOP BRACKET AND USE METHOD THEREFOR	2019/04/25
2020/07088	PROFIED ARCHWIRE LOCKING DEVICE AND USAGE METHOD THEREFOR	2019/04/25
2020/07089	VISIBLE LIGHT THREE-LAYER COLORFUL OPTICAL FIBER WITH WAVED LINING AND MANUFACTURING METHOD THEREOF	2019/06/03
2020/07165	DEVICE FOR GENERATING GAS BUBBLES IN SUSPENSIONS FOR THE ENRICHMENT OF MINERAL AND NON-MINERAL RAW MATERIALS AND USE OF SUCH A DEVICE	2019/04/12
2020/07166	MAIZE EVENT DP-023211-2 AND METHODS FOR DETECTION THEREOF	2019/04/22

Application Number	Patent Title	Filing Date
2020/07167	ASSEMBLY FOR FORMING AN ABUTMENT FOR A DENTAL IMPLANT WITH AN UNPREDETERMINED LENGTH	2019/05/29
2020/07192	FROTH FLOTATION APPARATUS	2019/04/12
2020/07220	DECENTRALIZED DOCUMENT AND ENTITY VERIFICATION ENGINE	2019/04/19
2020/07243	SYSTEM AND METHOD FOR PROCESSING USER FEEDBACK	2020/11/20
2020/07283	ROTARY TUBE APPARATUS	2019/05/10
2020/07302	MULTI-PURPOSE TILE SYSTEM, TILE COVERING, AND TILE	2019/05/16
2020/07334	HIGHLY DIGESTIBLE CLEAN-LABEL COMPOSITE EMULSION AND PREPARATION METHOD THEREOF	2020/11/25
2020/07337	SAFETY VERIFICATION SYSTEM & ASSOCIATED METHOD FOR IDENTIFYING A SAFETY THREAT	2020/11/25
2020/07350	SAFETY AND FILLING SYSTEM FOR RETRACTABLE NEEDLES SYRINGES	2019/05/16
2020/07381	SELF-BALLASTED HELIOSTAT WITH SUSPENDED MIRROR ASSEMBLY	2019/05/30
2020/07403	SPECIALISED PERSONNEL REPLACEMENT SYSTEM	2020/11/27
2020/07432	SIMILAR MATERIAL SIMULATION EXPERIMENT DEVICE AND METHOD FOR INCLINED ROCK STRATA	2020/11/30
2020/07500	DRY PREPARATION OF KAOLIN IN THE PRODUCTION OF HPA	2019/06/11
2020/07502	VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE	2019/06/11
2020/07614	VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE	2019/04/23
2020/07616	PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING AIDS COMPRISING RHODANINE DERIVATIVE	2019/04/23
2020/07808	INDOOR SIMULATION DEVICE FOR MEASURING HORIZONTAL HYDRAULIC CONDUCTIVITY IN VACUUM PRELOADING STATE	2020/12/15
2021/00183	GITHUB-BASED SEMI-SUPERVISED HETEROGENEOUS SOFTWARE DEFECT PREDICTION ALGORITHM	2019/06/12
2021/00183	GITHUB-BASED SEMI-SUPERVISED HETEROGENEOUS SOFTWARE DEFECT PREDICTION ALGORITHM	2019/06/12
2021/00500	DEVICE FOR SEPARATING FLYING	2021/01/25

Application Number	Patent Title	Filing Date
	FILAMENTS OF FEATHERS FROM FEATHER DUST	
2021/00648	COMPOSITIONS, METHODS, AND APPARATUSES FOR CATALYTIC COMBUSTION	2018/08/22
2021/00692	HIGH-PERFORMANCE CONCRETE POWER POLE	2021/02/01
2021/01387	ACRYLIC POLYMERS/FATTY ACID CROSSLINKED SOLID-SOLID PHASE CHANGE MATERIALS AND PREPARATION METHOD THEREOF	2021/03/01
2021/01388	MALEIC ANHYDRIDE COPOLYMERS/FATTY ACID CROSSLINKED SOLID-SOLID PHASE CHANGE MATERIALS AND PREPARATION METHOD THEREOF	2021/03/01
2021/02687	A LIQUID BRIDGE GENERATOR OF CONCENTRATION CAPILLARY CONVECTION	2021/04/22
2021/03016	RECEPTOR SUBTYPE AND FUNCTION SELECTIVE RETINOID AND REXINOID COMPOUNDS IN COMBINATION WITH IMMUNE MODULATORS FOR CANCER IMMUNOTHERAPY	2021/05/05
2021/03513	HYDRAULIC PRESSURE POWER BATTERY	2019/04/24
2021/03617	A VEHICLE SEAT ARTICULATION KIT	2021/05/27
2021/03835	INTERFERENCE-FLOW-BASED CONCENTRATION DETECTION COMPONENT FOR ROTARY CUTTING DRAINAGE-TYPE CONCENTRATION TANK AND DETECTION APPARATUS WITH SAME	2021/06/02
2021/03881	HEALTHY NUTRITION FLOUR FOR DIABETIC AND PREPARATION METHOD THEREOF	2021/06/07
2021/03883	SYSTEM FOR ANALYZING TEMPORAL AND SPATIAL EVOLUTION LAW OF PORES IN CAVING ZONE AND FISSURE ZONE DURING COAL SEAM MINING	2021/06/07
2021/03927	CONTROLLABLE MULTI-FACTOR GROUND SOURCE HEAT PUMP TESTING PLATFORM	2021/06/08
2021/04009	SYSTEM AND METHOD FOR DYNAMICALLY DETECTING CATHODE PLATE FLATNESS	2019/11/25
2021/04018	GRIPPING DEVICE OF CATHODE PLATE	2019/11/15
2021/04019	PROCESS FOR PREPARING HIGH	2021/06/10

Application Number	Patent Title	Filing Date
	STRENGTH CONCRETE USING NANO TITANIUM DIOXIDE	
2021/04127	COAL AND GANGUE SEPARATION SYSTEM	2021/06/15
2021/04128	METHOD FOR GOVERNING SPONTANEOUS COMBUSTION OF REMAINING COAL IN GOB-SIDE ENTRY RETAINING GOAF	2021/06/15
2021/04129	NO IRRIGATION BASE PLATE FOR ECOLOGICAL RESTORATION TREES IN ABANDONED MINING AREA AND ITS PRODUCTION METHOD AND PLANTING METHOD	2021/06/17
2021/04130	PREFABRICATED VIBRATION-DAMPING COMPONENTS FOR ASSEMBLED BUILDING	2021/06/17
2021/04131	METHOD OF MAINTAINING APPLE STORAGE QUALITY AND PROLONGING SHELF LIFE	2021/06/17
2021/04132	MOBILE ACCURATE FEEDING SYSTEM FOR SHRIMP PONDS	2021/06/17
2021/04133	METHOD FOR PREDICTING POTENTIAL DISTRIBUTION AREA OF PICEA ASPERATA	2021/06/17
2021/04137	AN IMAGE DENOISING METHOD FOR DEEP VERTICAL SHAFT WALL	2021/06/17
2021/04139	EXPERIMENT TABLE AND METHOD FOR QUANTITATIVELY INSPECTING COMPREHENSIVE PERFORMANCE OF OUTGOING QUALITY OF RV REDUCERS	2021/06/17
2021/04172	METHOD FOR DYNAMICALLY MONITORING INLAND RIVER BASIN GROUNDWATER IN ARID REGION IN REAL TIME	2021/06/17
2021/04173	CONTINUOUS SAMPLING-DETECTING-SAMPLE RETURNING APPARATUS OF ONLINE ASH DETECTOR	2021/06/17
2021/04177	A PURE CHINESE TRADITIONAL MEDICINE ANTIBACTERIAL PREPARATION AND ITS APPLICATION	2021/06/18
2021/04179	A TEST STRIP CARRIER PLATE, DETECTION DEVICE AND ITS MANUFACTURING METHOD	2021/06/18
2021/04180	ASSEMBLY TOOLING AND METHOD OF FLAW DETECTION WHEEL OF TRAIN TRACKS	2021/06/18
2021/04181	PREPARATION METHOD FOR SELF-CLEANING CARBON FIBER COMPOSITE MEMBRANE FOR OIL-WATER SEPARATION	2021/06/18

Application Number	Patent Title	Filing Date
2021/04182	INTERNET OF THINGS BASED PIPE CRAWLER SYSTEM	2021/06/18
2021/04183	RECOMBINANT ONCOLYTIC HERPES SIMPLEX VIRUS TYPE II AND ITS PHARMACEUTICAL COMPOSITION	2021/06/18
2021/04184	METHOD FOR ACTIVATING IMMUNOCYTES IN VITRO	2021/06/18
2021/04234	COAL AND GANGUE SORTING DEVICE AND RAW COAL AND GANGUE DISCHARGE SYSTEM	2021/06/21
2021/04236	LINEAR COAL AND GANGUE SEPARATION DEVICE AND MULTI-THREAD COAL AND GANGUE SEPARATION SYSTEM	2021/06/21
2021/04237	HIGH EFFICIENCY BORING MACHINE FOR MINE ROADWAY	2021/06/21
2021/04239	METHOD FOR DETECTING WATER JET CUTTING OF TARGET MATERIAL BASED ON FORCE CHANGE	2021/06/21
2021/04262	DEVICE FOR HIGH-PRECISION MEASUREMENT OF WAVELETS FROM PLASMA SOURCE IN SHALLOW WATER	2020/09/02
2021/04262	DEVICE FOR HIGH-PRECISION MEASUREMENT OF WAVELETS FROM PLASMA SOURCE IN SHALLOW WATER	2020/09/02
2021/04276	METHOD FOR KEEPING RED SAUSAGE FRESH BY EDIBLE CHITOSAN COATING	2021/06/22
2021/04277	CIRC RNA DETECTION KIT FOR AUXILIARY DIAGNOSIS OF AUTISM	2021/06/22
2021/04278	FREEZING PIPE AND ITS ARRANGEMENT METHOD FOR INCLINED SHAFT UNDER FAST DIGGING CONDITIONS OF ROADHEADER	2021/06/22
2021/04280	BISPECIFIC SINGLE-CHAIN ANTIBODY AND APPLICATION	2021/06/22
2021/04308	METHOD FOR IGBT OPEN-CIRCUIT FEATURE ANALYSIS AND DEEP LEARNING FAULT DIAGNOSIS OF THREE-LEVEL INVERTER	2021/06/22
2021/04351	METHOD AND SYSTEM FOR ENERGY DETECTION	2021/06/24
2021/04393	SUPPORT SUSPENSION TYPE TUNNELING-ANCHORING-SUPPORTING OPERATION PLATFORM	2021/06/25
2021/04533	SIMILAR MATERIAL	2021/06/29

Application Number	Patent Title	Filing Date
	PROPORTIONING SAMPLE DEMOULDING DEVICE	
2021/04534	METHOD FOR HYDROPHOBIC AGGREGATION SETTLEMENT AND CLARIFICATION OF COAL SLURRY WATER	2021/06/29
2021/04547	METHOD FOR DYNAMICALLY ADJUSTING BEDDING PRE-DRAINAGE BOREHOLE DISTRIBUTION PARAMETERS	2021/06/30
2021/04549	FUEL PICK-UP DEVICE	2019/12/12
2021/04573	VEHICLE-MOUNTED TERMINAL CAPABLE OF DISPLAYING TRAFFIC LIGHT INFORMATION OF INTERSECTION AHEAD IN REAL TIME	2020/05/15
2021/04574	SHIP-TYPE-SPOOFING DETECTION METHOD EMPLOYING ENSEMBLE LEARNING	2020/05/15
2021/04650	AN AIR-COOLING DEVICE WITH SMART ANTIMICROBIAL FEATURES	2021/07/05
2021/04651	A SYSTEM AND A METHOD FOR EVALUATING COMPRESSION STRENGTH OF A MATERIAL	2021/07/05
2021/04652	A PROCESS FOR PREPARING SLURRY INFILTRATED FIBRE CONCRETE	2021/07/05
2021/04690	FLUORESCENT CADMIUM METAL ORGANIC COMPLEX AS WELL AS PREPARATION METHOD AND APPLICATIONS THEREOF	2021/07/05
2021/04698	CONTROLLABLE PREPARATION FOR POLYTRIAZINYL POLYMER NANOPARTICLES	2021/07/06
2021/04805	TEST SYSTEM AND TEST METHOD FOR GAS AND COAL DUST EXPLOSION OF COAL MINE	2021/07/09
2021/04846	FULL-TIME OPEN INTERACTIVE GEOLOGICAL TEACHING LABORATORY SYSTEM	2021/07/12
2021/04865	PHOTOGRAPHIC BRACKET USED ON OPHTHALMIC SLIT LAMP MICROSCOPE	2020/05/29
2021/04878	SCENT GENERATING DEVICE USING POWDERED FRAGRANCE	2019/06/12
2021/04879	ODOR PRESENTATION DEVICE	2019/06/12
2021/05007	GAS PRODUCTION TEST SYSTEM AND METHOD FOR COAL AND ROCK SAMPLES UNDER ACTION OF TEMPERATURE AND PRESSURE	2021/07/16
2021/05008	INSTANT KONJAC GLUCOMANNAN	2021/07/16

Application Number	Patent Title	Filing Date
	BUDDHA JUMPING WALL JELLY AND PREPARATION METHOD THEREOF	
2021/05010	AUTOMATIC SEWAGE TREATMENT SYSTEM AND PREPARATION METHOD OF BIOLOGICAL CARRIER	2021/07/16
2021/05011	METHOD FOR IMPROVING FUNCTIONAL COMPONENTS IN LAMB BY FEEDING SWEET SORGHUM SILAGE DIET	2021/07/16
2021/05012	NON-INVASIVE LONG-RANGE SUBSTANCE DETECTION DEVICE BASED ON EARTH'S FIELD NUCLEAR MAGNETIC RESONANCE	2021/07/16
2021/05013	MULTIFUNCTIONAL UNIAXIAL TESTER FOR FROZEN SOIL AND INSTRUCTION FOR OPERATION	2021/07/16
2021/05047	RESISTANCE SPOT WELDING CONNECTION METHOD FOR THIN PLATE AND ULTRATHIN PLATE	2021/07/19
2021/05048	CERAMIC-CORE ANNULAR COPPER ELECTRODE AND RESISTANCE SPOT WELDING METHOD THEREOF	2021/07/19
2021/05049	AUTOMATIC WOOL FEEDING MACHINE	2021/07/19
2021/05050	MALE AND FEMALE INTEGRAL MOLD, MOLDS AND SYSTEM FOR SG ABRASIVE MICRO-COPY FORMING HOLES	2021/07/19
2021/05056	METHOD FOR CHEMICALLY INDUCING ALLOTRIPLOID ABALONE	2021/07/19
2021/05057	MULTIFUNCTIONAL PLOTTER SPECIAL FOR ADVANCED MATHEMATICS IN UNIVERSITY	2021/07/19
2021/05058	METHOD FOR PREPARING A PHOTOCONDUCTIVE DEVICE BASED ON QUANTUM DOTS AND HIGH MOLECULAR POLYMERS	2021/07/19
2021/05059	NEURAL NETWORK-BASED EDGE COMPUTING SYSTEM AND METHOD	2021/07/19
2021/05068	INTELLIGENT AUTOMATIC DETECTION DEVICE FOR MOTOR COMMUTATOR	2021/06/29
2021/05069	METHOD FOR PYROMETALLURGICAL CONCENTRATION OF PLATINUM GROUP METALS FROM SPENT ALUMINA-BASED CATALYSTS	2021/02/01
2021/05070	SLAG DESIGN METHOD FOR IRON TRAPPING OF PLATINUM GROUP	2021/02/01

Application Number	Patent Title	Filing Date
	METALS FROM SPENT CATALYSTS	
2021/05071	CONVEYING AND SCREENING DEVICE, SPIRAL PUSHING TYPE PEANUT KERNEL GRADING MACHINE AND METHOD THEREOF	2020/05/08
2021/05072	PRODUCTION LINE OF CA ABRASIVE	2019/10/30
2021/05090	A MANDIBLE LIFTING DEVICE THAT PREVENTS GLOSSOPTOSIS	2021/07/20
2021/05091	ACOUSTIC EMISSION MONITORING UNIT FOR A TRUE TRIAXIAL MINING COAL AND ROCK DYNAMIC BEHAVIOR EXPERIMENT	2021/07/20
2021/05092	PH SENSITIVE FRESHNESS DETECTION SMART LABEL, PREPARATION METHOD AND APPLICATION THEREOF	2021/07/20
2021/05093	RATOON CULTIVATION METHOD OF ASPARAGUS BY WATER AND FERTILIZER INTEGRATED INFILTRATION IRRIGATION	2021/07/20
2021/05095	METHOD FOR INVESTIGATING MOLECULAR MECHANISM UNDERLYING HEPATOMA CELL INVASION AND METASTASIS	2021/07/20
2021/05251	LAYOUT OF BLOWHOLES IN ASCENDING PIPE OF RH REFINING FURNACE	2021/07/26
2021/05252	DIFFUSE-ROW PLANT CULTIVATION HANGING TRAY	2021/07/26
2021/05253	ANTI-SUBSTRATE SPILL PLANTING CUP WITH FERTILIZER ROD	2021/07/26
2021/05254	PREPARATION METHOD AND APPLICATION OF COPPER CATALYST FOR ACETYLENE HYDROCHLORINATION REACTION	2021/07/26
2021/05255	WATER-SOLUBLE MONASCUS RED PIGMENT AND PREPARATION METHOD THEREOF	2021/07/26
2021/05256	INFRARED AND VISIBLE LIGHT IMAGE FUSION METHOD BASED ON FEATURE EMBEDDING	2021/07/26
2021/05257	SOIL REMEDIATION PASSIVATION MICROCAPSULE	2021/07/26
2021/05258	SIPHON-TYPE IRRIGATION AND DRAINAGE INTEGRATED CULTIVATION DEVICE	2021/07/26
2021/05259	REDUCED MATRIX CONSTRUCTION METHOD FOR ACCELERATING ITERATIVE SOLUTION OF CHARACTERISTIC BASIS FUNCTIONS METHOD	2021/07/26

Application Number	Patent Title	Filing Date
2021/05264	AUTOMATICALLY CONTROLLED, ADJUSTABLE-ANGLE APPARATUS FOR CALIBRATING SECTIONS OF ANIMAL BRAIN FOR EXPERIMENTATION	2020/09/09
2021/05265	HAND-OPERATED ADJUSTABLE-ANGLE APPARATUS FOR CALIBRATING SECTIONS OF ANIMAL BRAIN FOR EXPERIMENTATION	2020/09/09
2021/05294	AN APPLICATION METHOD OF BASIC MAGNESIUM CHLORIDE AND PHOSPHORUS ADSORBENT	2021/07/27
2021/05294	AN APPLICATION METHOD OF BASIC MAGNESIUM CHLORIDE AND PHOSPHORUS ADSORBENT	2021/07/27
2021/05295	RAPID LEAKAGE DETECTION DEVICE FOR MUNICIPAL WATER SUPPLY PIPELINE	2021/07/27
2021/05317	COMPOSITE MATERIAL, ITS PREPARATION METHOD, AND ITS USE AS ELECTRODE MATERIAL	2020/08/21
2021/05318	PHOSPHORYLATION ULTRA-FAST STRAW FIBER ADSORPTION MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF	2018/11/20
2021/05461	AGRICULTURAL INTERNET OF THINGS (IOT) INFORMATION COLLECTION DEVICE AND EARLY WARNING METHOD THEREOF	2021/08/02
2021/05462	TRANSPLANTING AND DIGGING DEVICE FOR TOBACCO SEEDLINGS UNDER FILM	2021/08/02
2021/05463	TRANSPLANTING AND SOIL COVERING DEVICE FOR TOBACCO SEEDLINGS UNDER FILM	2021/08/02
2021/05464	A MULTIFUNCTIONAL EMBRYO TRANSFER DEVICE	2021/08/02
2021/05465	A METHOD FOR PREPARING MUD FOR MINE VEGETATION RESTORATION PROJECT	2021/08/02
2021/05466	A DEVICE FOR PREPARING MUD FOR MINE VEGETATION RESTORATION PROJECT	2021/08/02
2021/05467	COUPLED SIMULATION METHOD OF 2D AND 3D MATHEMATICAL MODELS BASED ON INTERNAL AND EXTERNAL SCHEMAS	2021/08/02
2021/05468	PRODUCTION METHOD OF WOODY OIL INDUSTRY BY-PRODUCT-BASED BIOCHAR AND ITS APPLICATION IN SOIL AMELIORATION	2021/08/02

Application Number	Patent Title	Filing Date
2021/05469	PREPARATION METHOD OF COMPOUND MICROECOLOGICAL PREPARATION FOR FUR ANIMALS	2021/08/02
2021/05470	INDOOR HIGH-DENSITY CIRCULATING WATER OVERWINTERING DEVICE AND METHOD FOR URECHIS UNICINCTUS LARVAE	2021/08/02
2021/05472	AN AUXILIARY FOR REALIZING ROBOT WRITING	2021/08/02
2021/05476	METHOD OF PURIFYING NATURAL WATER AND WASTEWATER	2019/07/31
2021/05498	SEAMLESS SWITCHING SYSTEM APPLICABLE FOR LOW VOLTAGE RIDE-THROUGH OF VIRTUAL SYNCHRONOUS GENERATOR	2021/08/03
2021/05499	ELECTROWETTING DISPLAY AND MANUFACTURING METHOD THEREOF	2021/08/03
2021/05500	CLEANING AND DECONTAMINATION DEVICE FOR RAW MATERIALS USED IN THE PRODUCTION OF OPTOELECTRONIC DEVICES	2021/08/03
2021/05501	ZIGBEE-BASED REMOTE ONLINE MONITORING SYSTEM FOR POWER GRID TRANSFORMERS	2021/08/03
2021/05502	A BIOFILM AQUACULTURE WASTEWATER TREATMENT SYSTEM	2021/08/03
2021/05503	EUCALYPTUS GENETIC TRANSFORMATION METHOD WITH SELECTION MARKERS	2021/08/03
2021/05504	HEAT RECOVERY FRESH AIR DEHUMIDIFIER	2021/08/03

DESIGNS

Advertisement List for August 2021

Number of Advertised Designs: 166

Application Number	Design Articles	Filing Date
A2019/00106	Payload Delivery Device	2019/01/14
A2019/00505	Construction element	2019/04/16
A2019/01530	BOTTLE	2019/10/16

Application Number	Design Articles	Filing Date
A2019/01531	BOTTLE	2019/10/16
A2019/01532	BOTTLE	2019/10/16
A2019/01583	Automobile	2019/10/23
A2019/01631	Wheel	2019/10/31
A2019/01632	Wheel	2019/10/31
A2019/01759	ORNAMENTATION	2019/12/05
A2019/01760	ORNAMENTATION	2019/12/05
A2019/01766	Display Screen or Portion Thereof with Graphical User Interface	2019/12/09
A2019/01789	BATTERY PACKS	2019/12/11
A2019/01800	AEROSOL DELIVERY DEVICE CARTRIDGE	2019/12/12
A2019/01824	Bulk Storage Bins	2019/12/17
A2020/00023	Connector	2020/01/09
A2020/00024	Connector	2020/01/09
A2020/00055	Tap	2020/01/17
A2020/00059	Car	2020/01/21
A2020/00060	Toy Car	2020/01/21
A2020/00076	HANDLE	2020/01/27
A2020/00081	BOXES	2020/01/27
A2020/00085	A CONTAINER FOR CHEMICALS	2020/01/28
A2020/00087	A CONTAINER FOR CHEMICALS	2020/01/28
A2020/00089	Bottle	2020/01/28
A2020/00090	Bottle	2020/01/28
A2020/00091	Bottle	2020/01/28
A2020/00092	Car	2020/01/28
A2020/00093	Toy Car	2020/01/28
A2020/00095	CAM BUCKLE	2020/01/29
A2020/00097	STORAGE CASE	2020/01/29
A2020/00168	Wheel	2020/02/12
A2020/00183	Manual Stand Mixer	2020/02/13
A2020/00267	Bases for water meter housings	2020/02/27
A2020/00268	Bases for water meter housings	2020/02/27
A2020/00269	Bases for water meter housings	2020/02/27
A2020/00317	Knee Support	2020/03/09
A2020/00357	Hair Brush	2020/03/13
A2020/00358	VEHICLE ACCESSORY	2020/03/16
A2020/00400	Braid Sealer Body	2020/03/23
A2020/00461	GEARS	2020/05/04
A2020/00462	CONTAINERS	2020/05/04
A2020/00479	DISPENSING PACKAGING	2020/05/04
A2020/00496	Container	2020/05/04
A2020/00497	Automobile	2020/05/04
A2020/00516	A BOTTLE	2020/05/05
A2020/00521	A DISPENSER	2020/05/05
A2020/00523	A DISPENSER	2020/05/05
A2020/00525	A DISPENSER	2020/05/05
A2020/00547	Wheel	2020/05/07
A2020/00548	Wheel Cap	2020/05/07
A2020/00578	Vaginal Ring for Oestrus	2020/05/12

Application Number	Design Articles	Filing Date
	Synchronization in a Cow	
A2020/00800	FOLDABLE FACE MASKS	2020/06/11
A2020/00813	CLOSURE MEANS	2020/06/12
A2020/00814	CLOSURE MEANS	2020/06/12
A2020/00815	CLOSURE MEANS	2020/06/12
A2020/00816	CLOSURE MEANS	2020/06/12
A2020/00950	Command Pod Module	2020/07/09
A2020/01006	GAME BOARD	2020/07/20
A2020/01032	WATCHES	2020/07/28
A2020/01114	Drinking Tumbler with Cap	2020/08/17
A2020/01125	PACKAGING OPENERS	2020/08/19
A2020/01191	AN INSERT FOR A KILN	2020/09/02
A2020/01201	AN EXERCISE MAT	2020/09/03
A2020/01203	AN EXERCISE MAT	2020/09/03
A2020/01212	Automobile	2020/09/07
A2020/01249	BRUSH	2020/09/18
A2020/01306	TOWEL RAIL	2020/09/29
A2020/01315	Holsters	2020/09/30
A2020/01338	ANIMAL TAG	2020/10/07
A2020/01354	Screen for a Vehicle	2020/10/12
A2020/01375	INJECTION DEVICE	2020/10/21
A2020/01376	INJECTION DEVICE	2020/10/21
A2020/01377	INJECTION DEVICE	2020/10/21
A2020/01383	FLXIBLE HOSE	2020/10/22
A2020/01384	FLEXIBLE HOSE	2020/10/22
A2020/01391	BOTTLE	2020/10/23
A2020/01423	Boot	2020/11/04
A2020/01439	Containers	2020/11/06
A2020/01464	Yoghurt Tray	2020/11/11
A2020/01479	Container	2020/11/18
A2020/01480	Container	2020/11/18
A2020/01500	Bottle for Liquids	2020/11/19
A2020/01501	Bottle for Liquids	2020/11/19
A2020/01519	Wheel	2020/11/24
A2020/01520	Wheel	2020/11/24
A2020/01521	Wheel	2020/11/24
A2020/01523	PNEUMATIC TYRE	2020/11/25
A2020/01526	Band	2020/11/25
A2020/01535	CARTRIDGE LABEL	2020/11/26
A2020/01536	CARTRIDGE LABEL	2020/11/26
A2020/01537	Front Bumper for an Automobile	2020/11/26
A2020/01538	Front Bumper for an Automobile	2020/11/26
A2020/01539	Rear Bumper for an Automobile	2020/11/26
A2020/01540	CARTRIDGE LABEL	2020/11/26
A2020/01543	Travelator	2020/11/27
A2020/01547	BUSES	2020/11/27
A2020/01555	CONTAINERS	2020/11/30
A2020/01556	CONTAINERS	2020/11/30
A2020/01557	CONTAINERS	2020/11/30
A2020/01558	CONTAINERS	2020/11/30

Application Number	Design Articles	Filing Date
A2020/01559	CONTAINERS	2020/11/30
A2020/01560	CONTAINERS	2020/11/30
A2020/01561	CONTAINERS	2020/11/30
A2020/01562	HOUSING UNIT	2020/11/30
A2020/01567	THRUST LEG	2020/11/30
A2020/01569	THRUST LEG	2020/11/30
A2020/01571	SEALED FLUID CONTAINER	2020/12/01
A2020/01573	SEALED FLUID CONTAINER	2020/12/01
A2020/01575	SEALED FLUID CONTAINER	2020/12/01
A2020/01577	SEALED FLUID CONTAINER	2020/12/01
A2020/01579	SEALED FLUID CONTAINER	2020/12/01
A2020/01591	PNEUMATIC TYRE	2020/12/07
F2019/00894	TOILET ENCLOSURE	2019/07/04
F2020/00053	BOLTS	2020/01/17
F2020/00058	COAT	2020/01/20
F2020/00082	BLANKS FOR BOXES	2020/01/27
F2020/00086	A CONTAINER FOR CHEMICALS	2020/01/28
F2020/00088	A CONTAINER FOR CHEMICALS	2020/01/28
F2020/00096	CAM BUCKLE	2020/01/29
F2020/00177	ALIGNMENT CLAMP	2020/02/13
F2020/00266	Bases for water meter housings	2020/02/27
F2020/00468	SENSOR MOUNT	2020/05/04
F2020/00515	A BOTTLE	2020/05/05
F2020/00517	A DISPENSER	2020/05/05
F2020/00522	A DISPENSER	2020/05/05
F2020/00524	A DISPENSER	2020/05/05
F2020/00628	SEQUENCING CARTRIDGE ASSEMBLY	2020/05/21
F2020/00772	CASKET LOWERING DEVICE	2020/06/10
F2020/00899	HAND SANITISING DEVICES	2020/06/26
F2020/01007	GAME BOARD	2020/07/20
F2020/01028	CAP	2020/07/27
F2020/01144	LOCKING MODULE	2020/08/24
F2020/01178	WHEEL CARRIER	2020/09/02
F2020/01180	SET OF RAIL STABILISER COMPONENTS	2020/09/02
F2020/01192	AN INSERT FOR A KILN	2020/09/02
F2020/01200	AN EXERCISE MAT	2020/09/03
F2020/01202	AN EXERCISE MAT	2020/09/03
F2020/01258	INHALER	2020/09/21
F2020/01307	FLOWER HOLDER	2020/09/29
F2020/01309	BALL	2020/09/29
F2020/01367	VALVE CONTROL INTERFACE	2020/10/16
F2020/01368	VALVE CONTROL INTERFACE	2020/10/16
F2020/01408	FLOWER HOLDER	2020/10/30
F2020/01411	A LAPTOP STAND	2020/10/30
F2020/01418	TABLES	2020/11/03
F2020/01420	FACE MASK	2020/11/03
F2020/01422	PIPE RELINING APPARATUS	2020/11/04
F2020/01434	FLOATING CHEMICAL DISPENSING	2020/11/06

Application Number	Design Articles	Filing Date
	CONTAINERS	
F2020/01435	FLOATING CHEMICAL DISPENSING CONTAINERS	2020/11/06
F2020/01437	FLOATING CHEMICAL DISPENSING CONTAINERS	2020/11/06
F2020/01438	FLOATING CHEMICAL DISPENSING CONTAINERS	2020/11/06
F2020/01440	Containers	2020/11/06
F2020/01454	WOUND DRESSING	2020/11/10
F2020/01455	WOUND DRESSING	2020/11/10
F2020/01465	Blank for a Yoghurt Tray	2020/11/11
F2020/01518	A lock	2020/11/24
F2020/01531	WALL PANEL ELEMENT	2020/11/25
F2020/01563	FOUNDATION MOULD	2020/11/30
F2020/01568	THRUST LEG	2020/11/30
F2020/01570	THRUST LEG	2020/11/30
F2020/01572	SEALED FLUID CONTAINER	2020/12/01
F2020/01574	SEALED FLUID CONTAINER	2020/12/01
F2020/01576	SEALED FLUID CONTAINER	2020/12/01
F2020/01578	SEALED FLUID CONTAINER	2020/12/01
F2020/01580	SEALED FLUID CONTAINER	2020/12/01
F2020/01584	J-CLIP	2020/11/25